



US006916257B1

(12) **United States Patent**
van Nimwegen

(10) **Patent No.:** **US 6,916,257 B1**
(45) **Date of Patent:** ***Jul. 12, 2005**

(54) **PORTABLE BASKETBALL GOAL SYSTEM**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 26 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **10/212,443**

(22) Filed: **Aug. 5, 2002**

Related U.S. Application Data

(63) Continuation of application No. 09/638,529, filed on Aug. 14, 2000, now Pat. No. 6,432,003, which is a continuation-in-part of application No. 09/249,275, filed on Feb. 11, 1999, now abandoned.

(51) **Int. Cl.**⁷ **A63B 63/08**

(52) **U.S. Cl.** **473/481; 473/479; 280/46**

(58) **Field of Search** 473/481, 482, 473/483-84, 479, 476, 449, 415, 436, 433, 472; 188/1.12; 16/18 R; 248/519, 188.2, 129; 280/43.17, 47.24, 43.1, 659, 46

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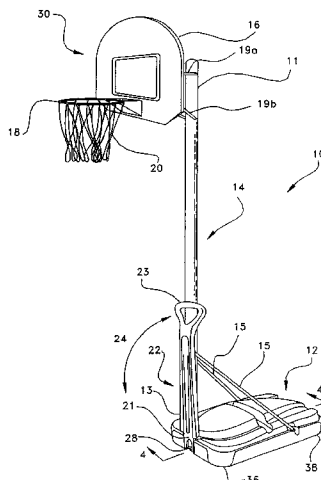
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ABSTRACT

A portable basketball goal system having an adjustable wheel assembly is disclosed. The portable basketball goal system may comprise a rigid pole, a support base, an adjustable wheel assembly, and an engaging member. The support base is configured to maintain the rigid pole in a generally elevated position. The adjustable wheel assembly is connected to the support base and has an engaged and disengaged position. In the engaged position, the wheel assembly supportably engages a playing surface. In the disengaged position, the wheel assembly may not supportably engage the playing surface. The adjustable wheel assembly may be slidably coupled to the support base. The adjustable wheel assembly may be operated by an engaging member coupled to a cam surface. The cam surface may interact with a follower to transition the adjustable wheel assembly between the supportable and unsupportable engagements.

56 Claims, 12 Drawing Sheets



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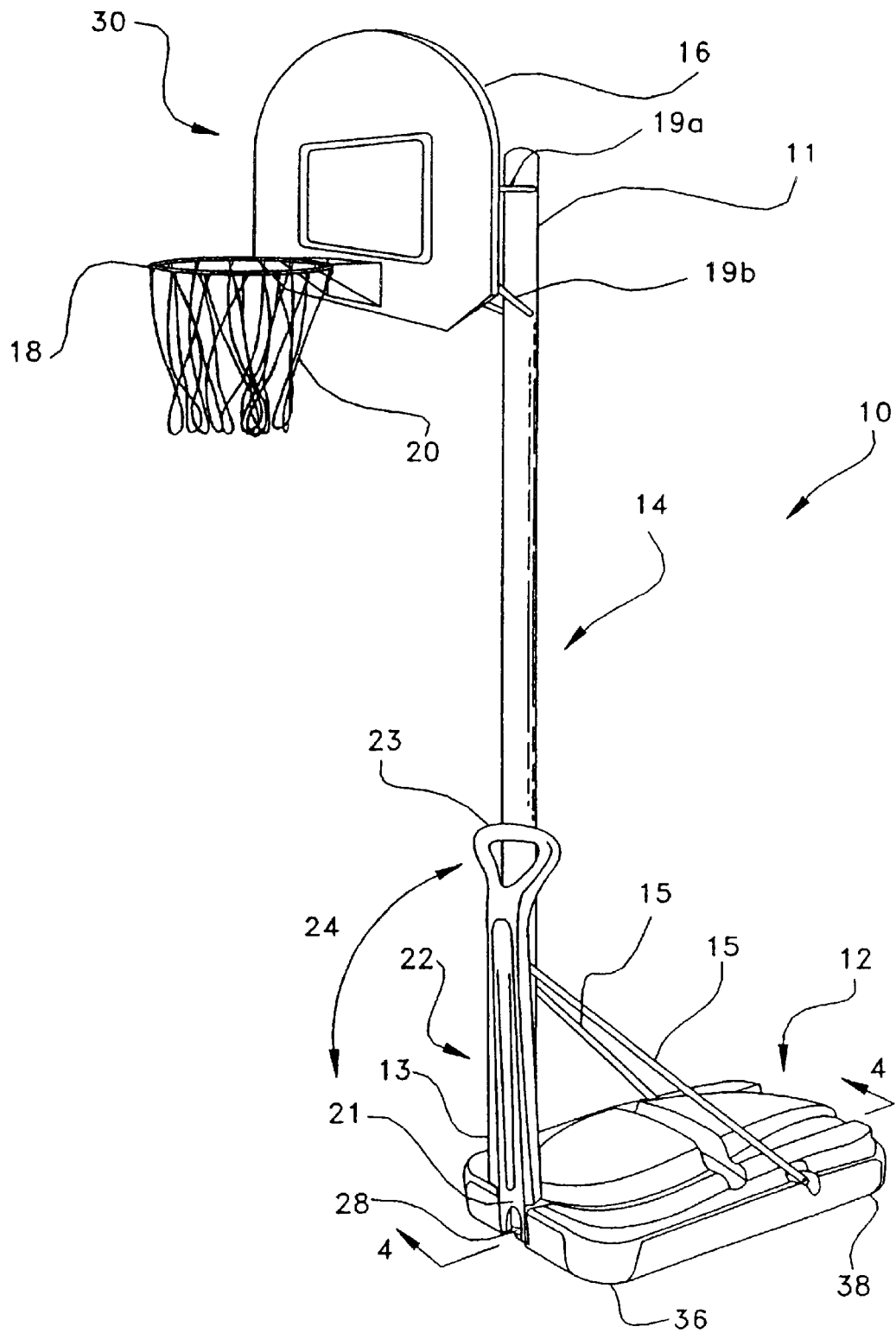


Fig. 1

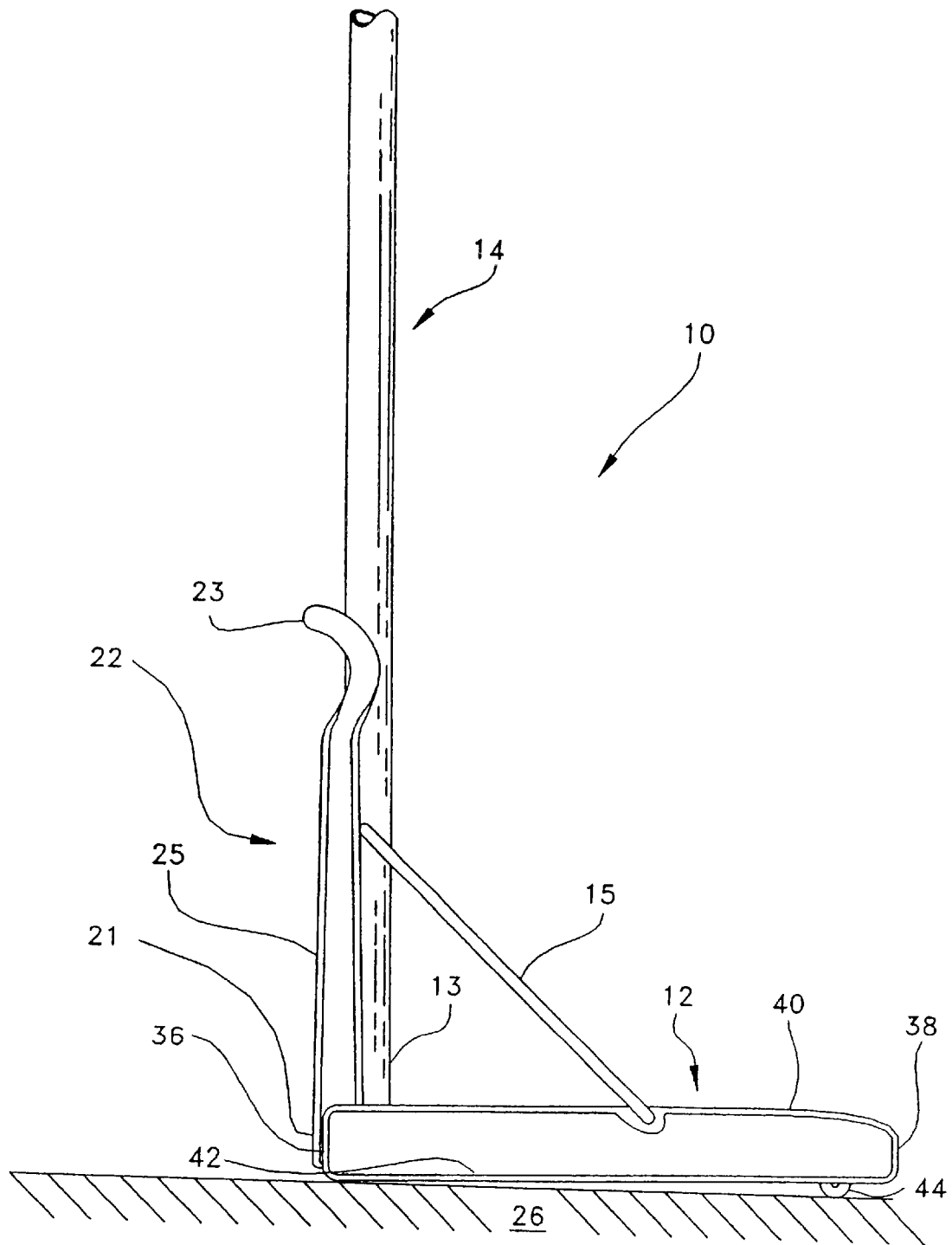


Fig. 2

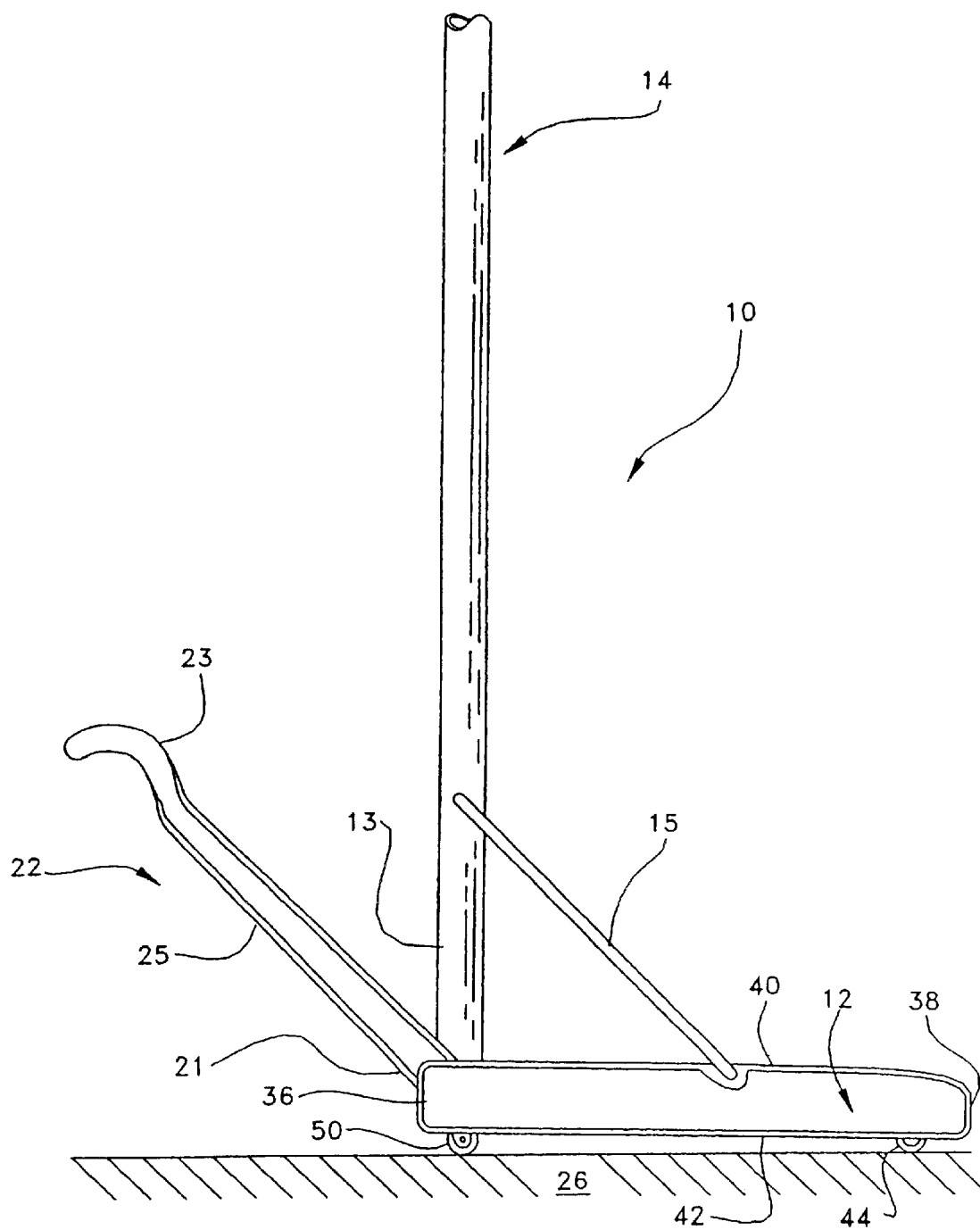


Fig. 3

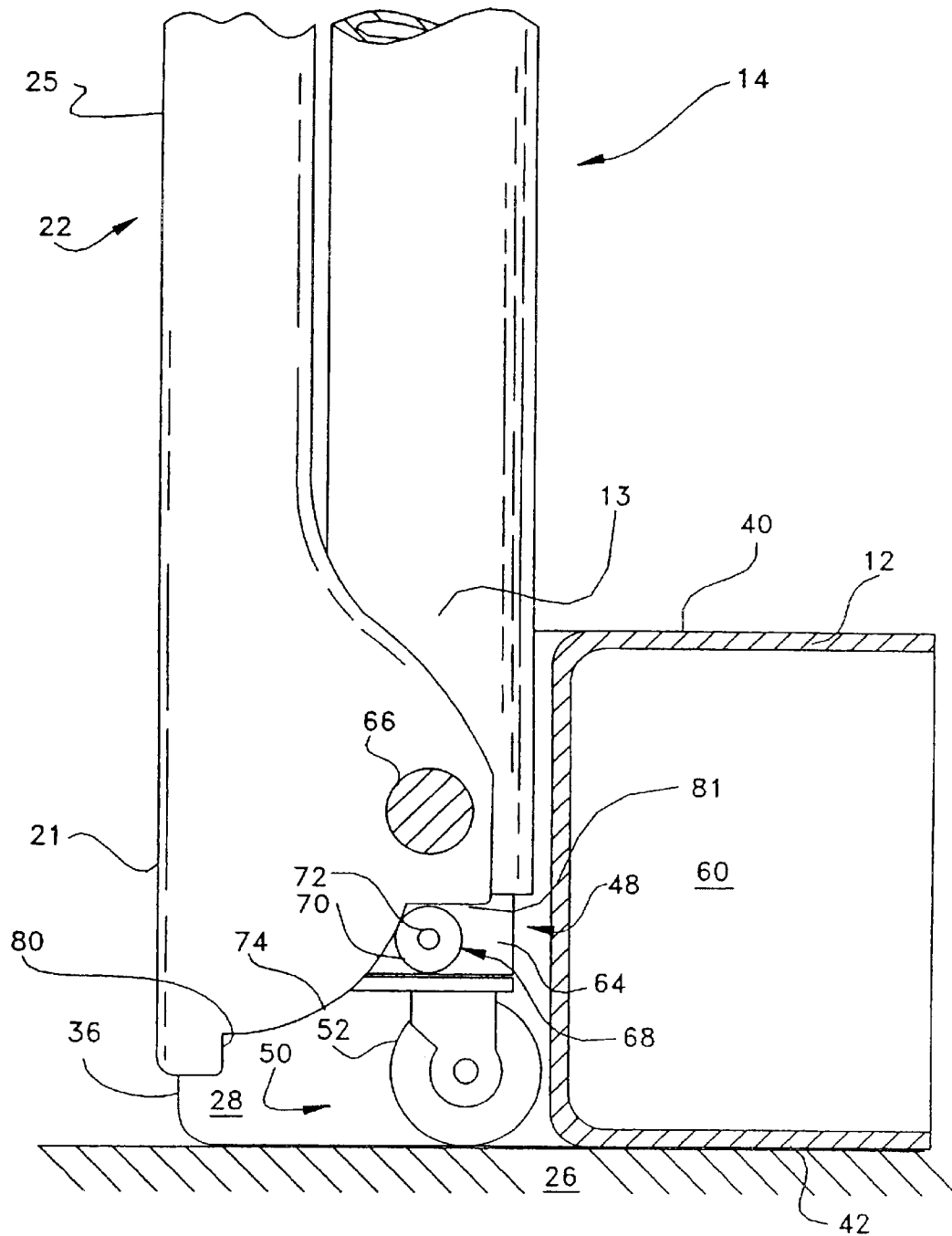


Fig. 4

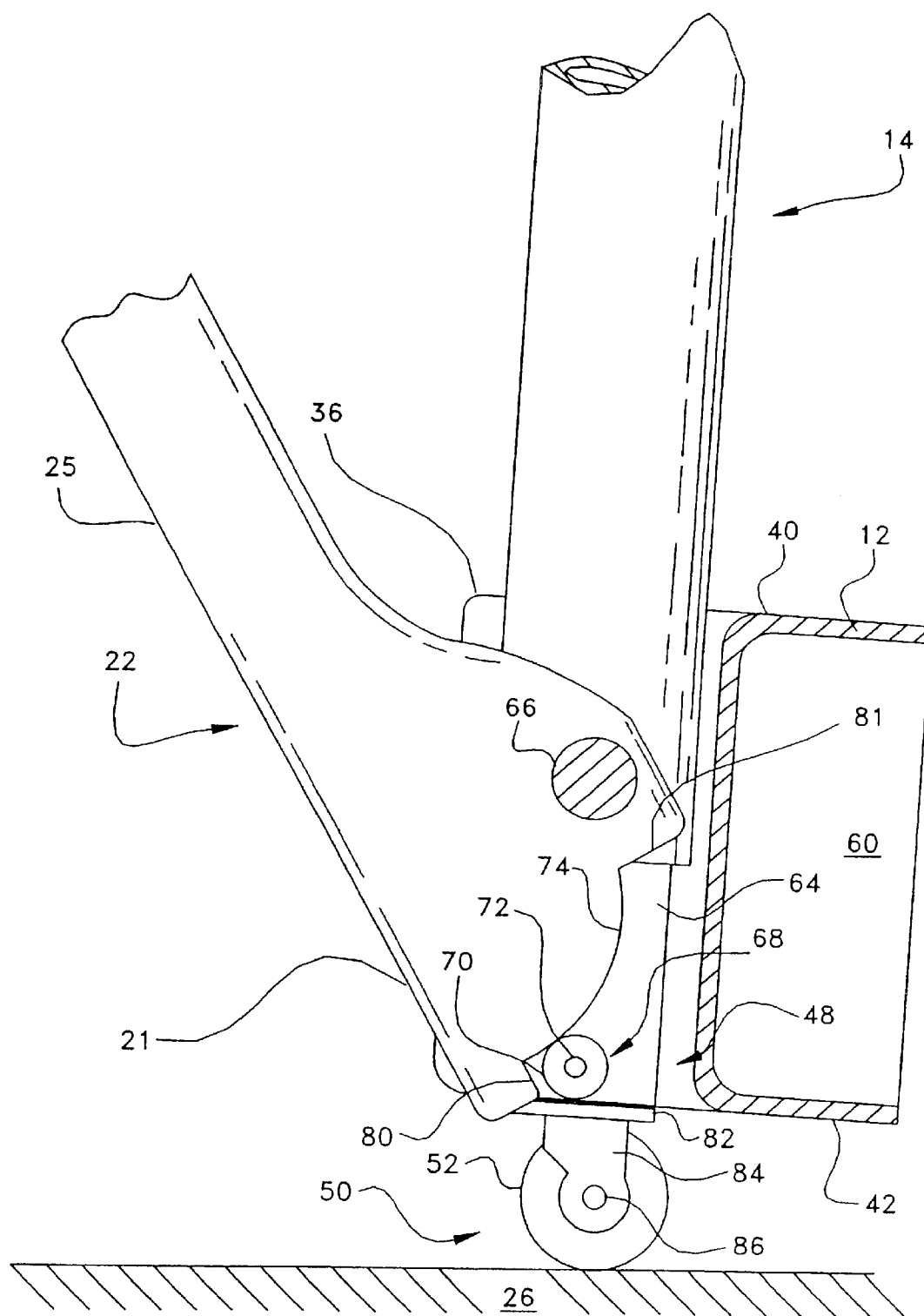


Fig. 5

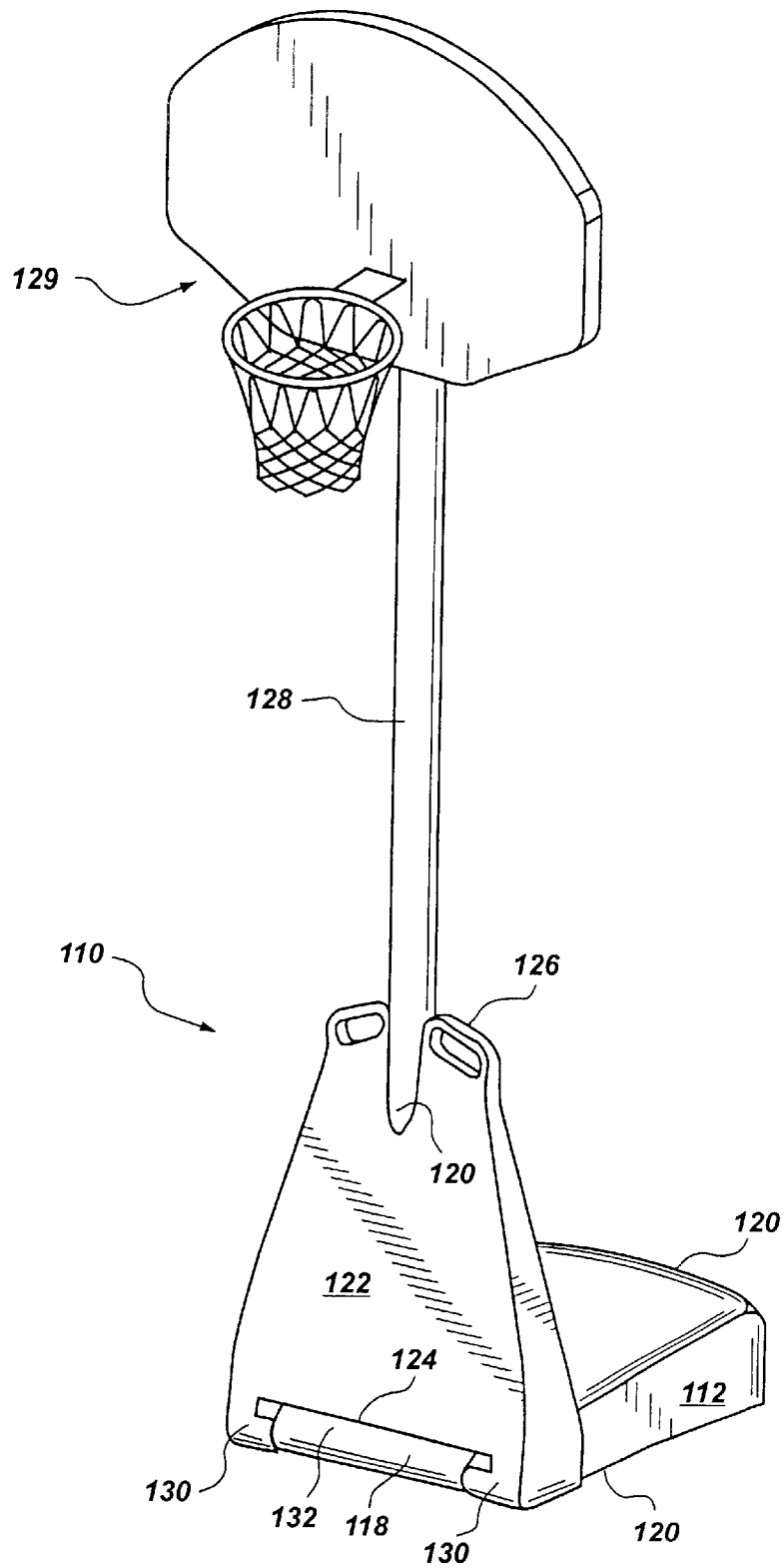


Fig. 6

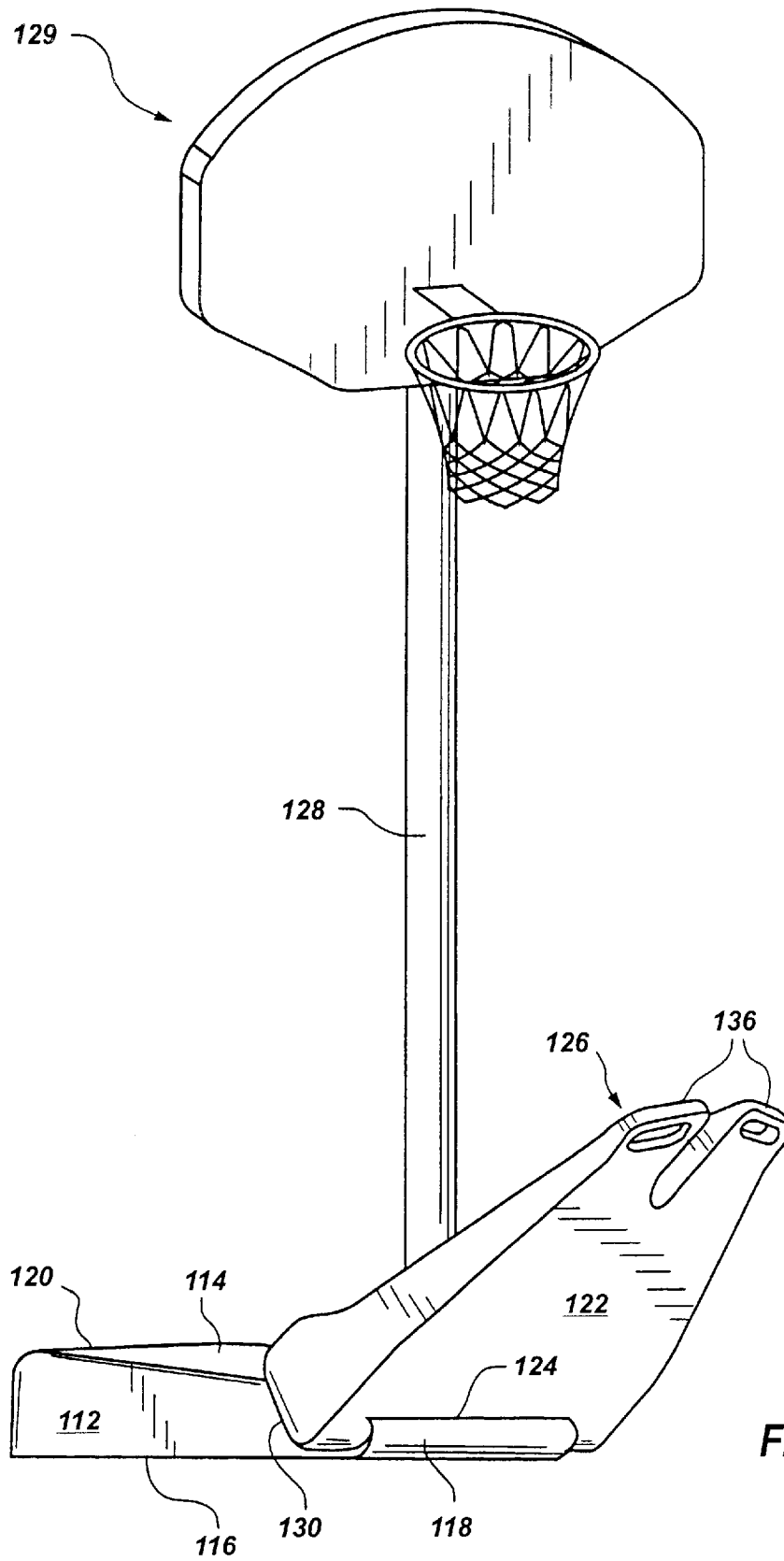
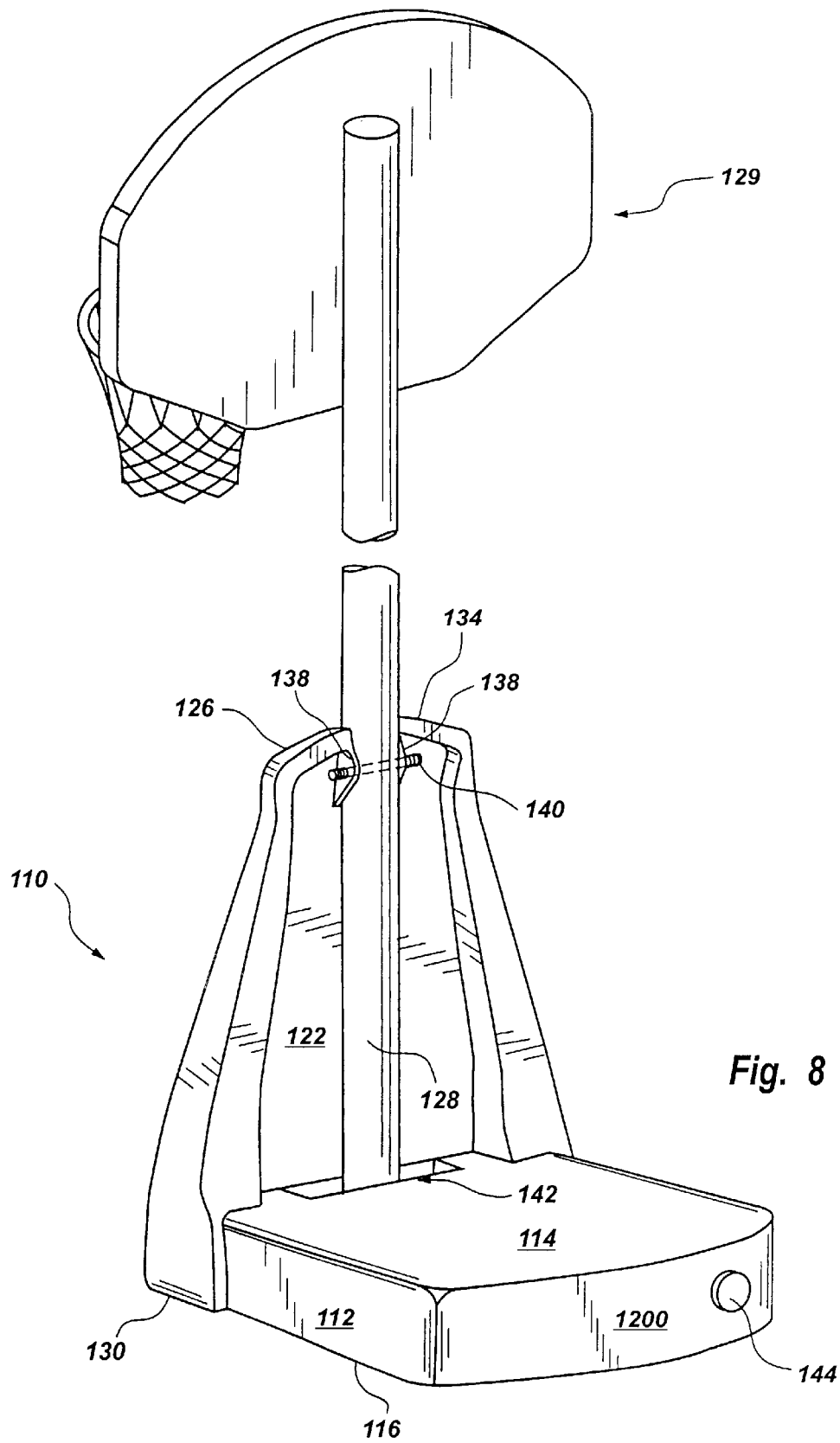
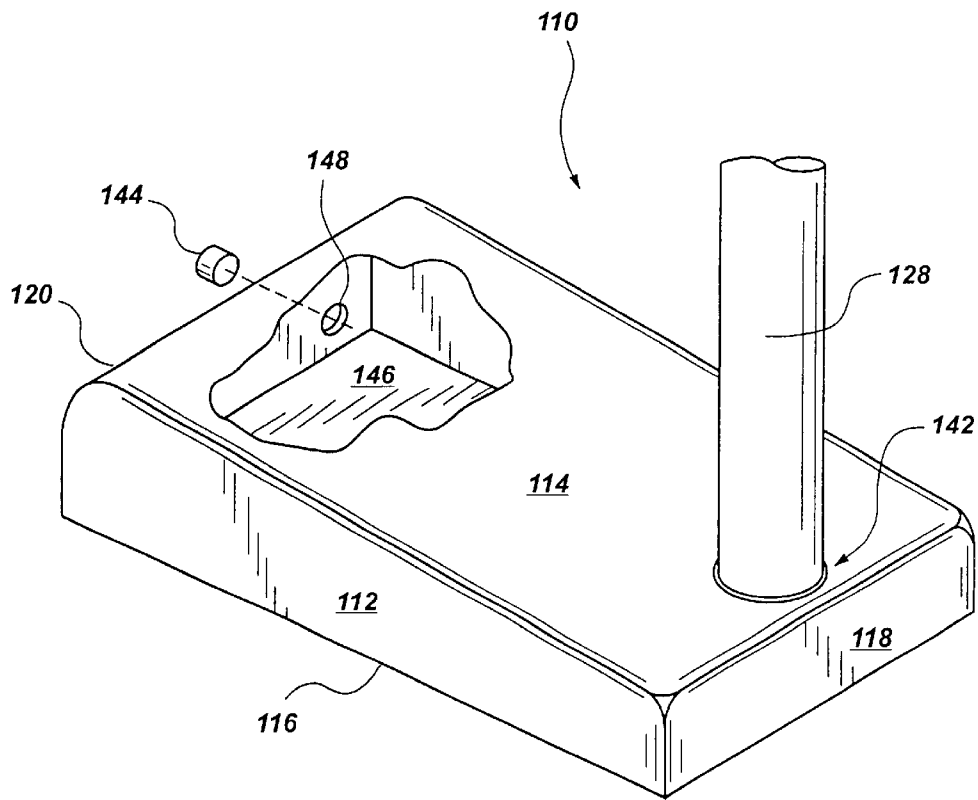


Fig. 7



*Fig. 9*

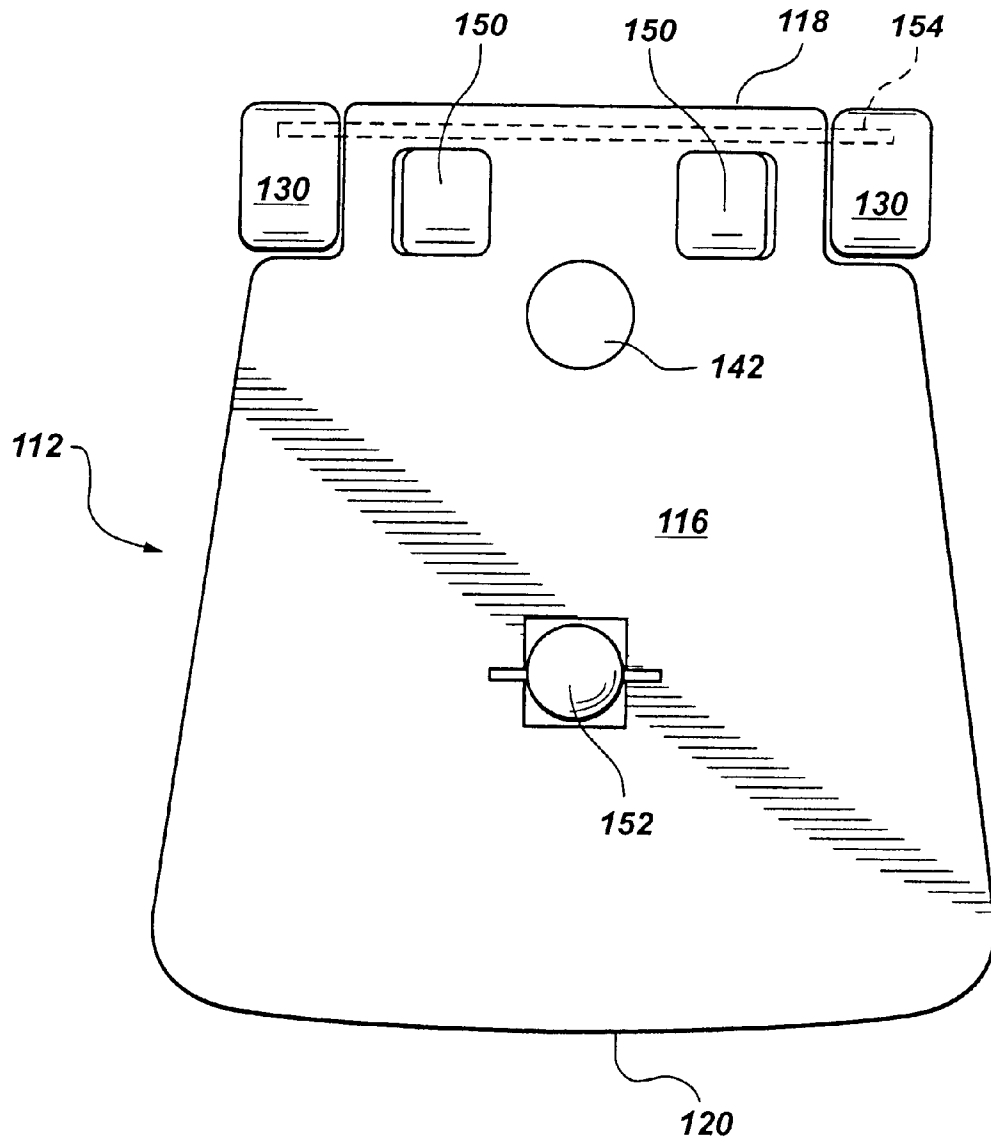


Fig. 10

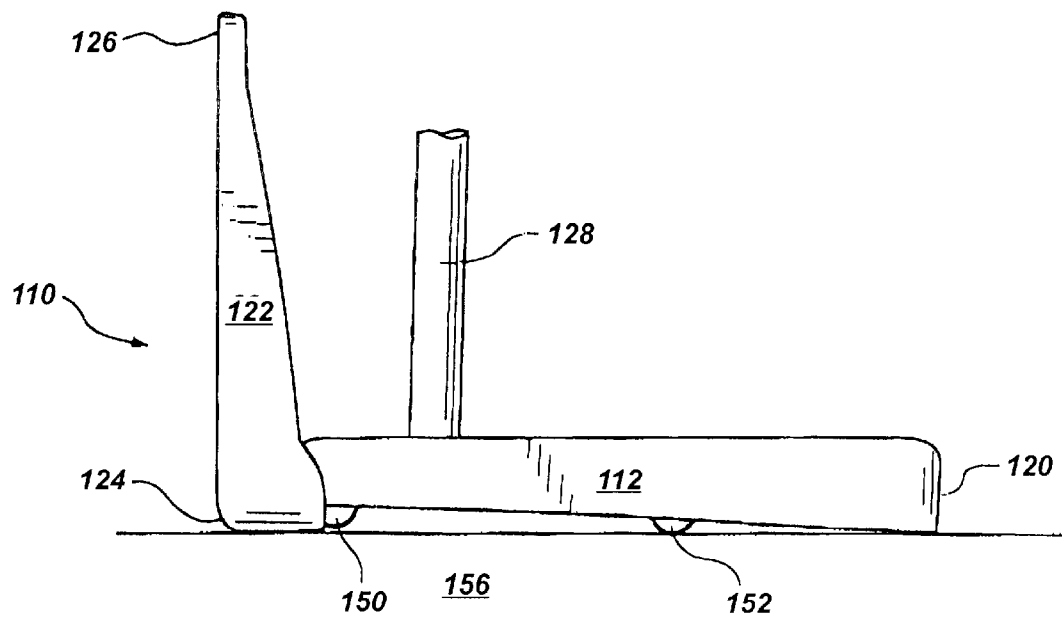


Fig. 11A

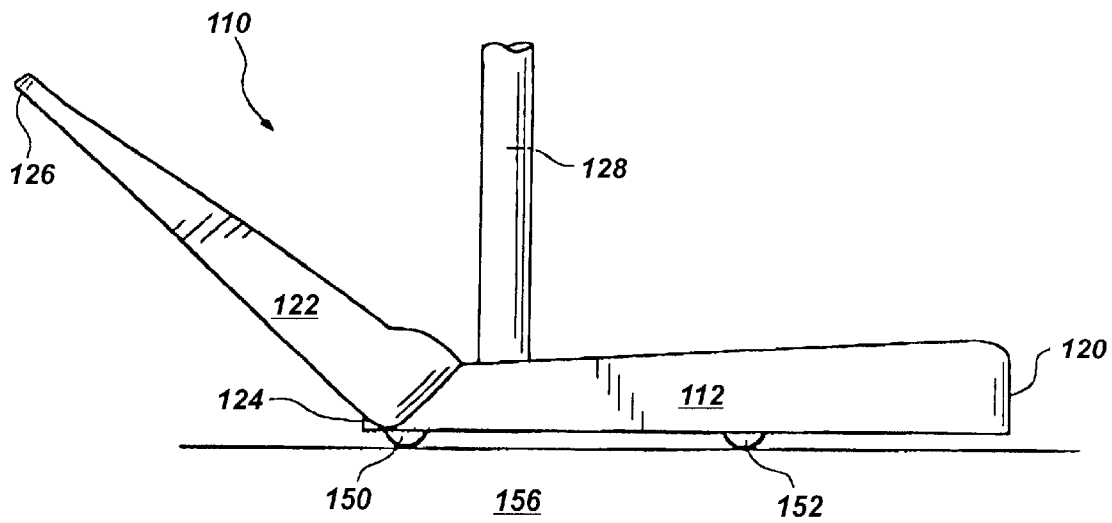


Fig. 11B

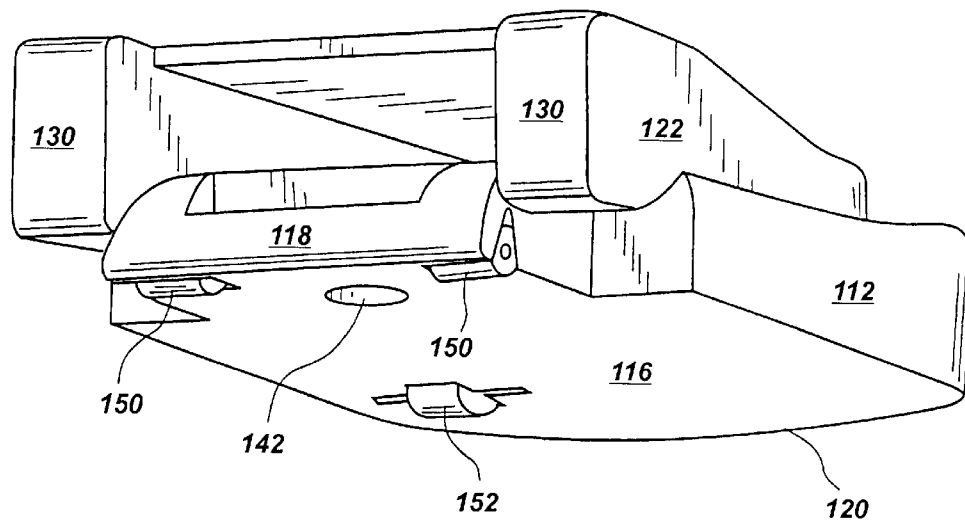


Fig. 12

PORTABLE BASKETBALL GOAL SYSTEM**CROSS-REFERENCE TO RELATED APPLICATIONS**

This application is a continuation of U.S. application Ser. No. 09/638,529, filed on Aug. 14, 2000, now U.S. Pat. No. 6,432,003, entitled ADJUSTABLE WHEEL ENGAGEMENT ASSEMBLY FOR BASKETBALL GOAL SYSTEMS, which is a continuation-in-part of patent application Ser. No. 09/249,275, filed on Feb. 11, 1999, now abandoned, and entitled PORTABLE BASKETBALL GOAL SYSTEM HAVING-PART BASE SUPPORT ASSEMBLY, each of which are hereby incorporated by reference in their entireties.

BACKGROUND OF THE INVENTION**1. Field of the Invention**

The present invention relates to basketball goal assemblies and, more particularly, to novel adjustable wheel engagement assemblies for basketball goal systems employing a unique structural design that facilitates selective movement of the basketball goal system in relation to a playing surface.

2. The Relevant Technology

As the game of basketball has increased in popularity a greater number of people have purchased basketball goals for use at their homes. Typically, home basketball goals are permanently mounted in a manner such that the driveway of the home serves as a playable basketball court, as few homes have sufficient land surrounding the home to dedicate space for exclusive use as a basketball court. In some instances, deciding where to position or mount a basketball goal can pose some playing difficulties. For example, mounting a basketball goal adjacent to the driveway of a home may precipitate a risk to any traffic in the driveway, resulting in potential injury to the players or damage to parked or moving automobiles.

In some cases, the perfect location for mounting a basketball goal is the place where permanently mounting the basketball goal cannot be easily accomplished. Such a location may be where there is concrete or asphalt on the ground. To permanently mount the basketball goal assembly would therefore require breaking up the concrete or asphalt and then repairing the receiving hole after inserting an end of a support pole into the ground. Such a procedure could be relatively expensive and would most likely leave the driveway appearing unsightly at least during the period of construction and repair.

Other disadvantages are also associated with permanently installed basketball goal assemblies. Since basketball goal assemblies are generally mounted to a surface outdoors, they are generally exposed to the harsh elements of the weather throughout the entire year. As appreciated, constant exposure to the elements of the weather (e.g., rain, snow, sleet, high temperatures) will typically cause the component parts of the basketball goal assembly to prematurely wear by promoting oxidation. Premature oxidation can be particularly troublesome in basketball goal assemblies having any moving parts, such as height adjustment mechanisms or breakaway rim assemblies. Moreover, consistent exposure to the elements of the weather may cause premature failure of such mechanisms.

Mounted basketball goal assemblies that are utilized in an indoor environment may suffer from similar disadvantages associated with permanent placement. For example, schools

typically have a gymnasium which generally serves many functional purposes. Having several basketball goals permanently mounted for use in the gymnasium may preclude, or at least interfere, with certain other activities. On formal occasions, objection may be made to the appearance of one or more permanently mounted basketball goals.

In response to these and other disadvantages inherent in basketball goal assemblies that are permanently mounted to a surface, those skilled in the art began developing portable basketball assemblies. In order for a portable basketball goal assembly to be effective, sufficient weight must be employed to maintain the basketball goal in a generally rigid, upright position for use when playing the game of basketball or shooting baskets. Hence, portable basketball goal assemblies were developed utilizing a great deal of weight at the base, thereby making the goal assembly particularly difficult to move and typically requiring the assistance of several people to set up or relocate the basketball goal. Additionally, such designs can be prohibitively expensive for people desiring to purchase one for home use.

Other prior art portable basketball goal assemblies were developed which incorporate removable weights such as, for example, sand bags or metal weights, that are generally disposed in relation to the support structure. A principal disadvantage in using these types of removable weights is that they can be extremely heavy, difficult to lift and arrange. Accordingly, although the basketball goal assemblies employing such designs may be easier to move in relation to permanently mounted goal assemblies, the weights or weighted members are not.

In an attempt to make portable basketball goal assemblies that are better suited for home use, support bases were developed having a hollow cavity sufficient for receiving a ballast material. The ballast material introduced into the cavity of the support base may include water, sand or other suitable material. Such portable basketball goal assemblies can be more easily moved to a desired location where the support base is then filled with the ballast material, thereby providing sufficient weight to maintain the goal in a generally rigid, upright position for game play. A principal advantage of using a support base fillable with a ballast material is that water, sand or other fillable materials are usually inexpensive and convenient to use. When it is desired to move these prior art portable basketball goal assemblies, the ballast material is generally emptied out of the internal cavity in the support base and then the basketball goal assembly is moved. However, having to fill and empty the goal each time the goal is to be set up or moved requires time and is inherently inconvenient.

To assist in moving prior art basketball goal assemblies, one or more wheels were incorporated into support bases to facilitate movement of the basketball goal assembly. For example, one such wheeled support base design is disclosed wherein the support base generally engages the ground and rests on one or more base wheels. Movement is achieved by lifting and tilting the support base generally on an end until substantially the weight of the base rests on the wheels. Thus, the base wheels serve as a rotating fulcrum upon which the effective weight of the basketball goal assembly may be supported such that the basketball goal assembly then is maneuverable in this position from place to place.

A disadvantage to prior art base support wheel assemblies is that pivoting a heavy base to facilitate its relocation can be difficult for some people and especially for children to move. Specifically, attempting to pivot a heavy support base may present dangers associated with having the entire

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basketball goal assembly dropped on one or more persons or children. This is especially true when someone without sufficient physical strength attempts to pivot or move a heavy support base. Whereas, a sudden release of the heavy base can cause bodily injury or damage to the base or those in its vicinity.

In addition, many portable basketball goal assemblies do not fully engage the playing surface when positioned for game play. This is particularly problematic for basketball goal assemblies that incorporate wheels in the support base. For example, a portion of the base must be lifted off the playing surface to keep the basketball goal assembly from resting on the wheels and being somewhat moveable under little force. As a result, there is less friction between the support base and the playing surface, therefore the support base is liable to move during play, especially during slam dunks and other maneuvers that place a substantial lateral force on the basketball goal assembly.

Another disadvantage with prior art portable basketball goal assemblies is that many are formed having the support pole positioned only a few inches from the inner edge of the base. As a result, the moveable support base extends outwardly and underneath the basketball net. This makes it difficult to execute game play strategies in which a player is positioned behind or beneath the basketball net because the support base extends into this area of game play, and may even cause a player to stumble.

Moreover, many prior art portable basketball goal assemblies do not permit lateral (sideways) motion of the front portion of the support base. Thus, anyone attempting to move the heavy support base and attached pole and basketball goal support must intuitively push the assembly backward to move it or, alternatively, swing the rear portion of the support base around in an effort to orient the base before attempting to move the basketball goal assembly. This can be particularly troublesome when the basketball goal assembly is to be stored in a narrow enclosure; there may not be sufficient room to pivot the support base in order to remove the basketball goal assembly from the enclosure. As appreciated, small adjustments in the positioning of these type of prior art basketball goal assemblies for game play are generally more difficult if the front portion of the assembly, which supports the basketball goal, does not have the capacity to be moved laterally.

Furthermore, many prior art portable basketball goal assemblies cannot be manipulated from a stationary configuration to a mobile configuration without changing the position of the device (i.e., forceably tilting the support base). This makes minor repositioning even more difficult, as a user must attempt to move the support base and then try to guess where the base will end up after the basketball goal assembly is returned to a stationary configuration. A user may thus find it exceptionally difficult to move these prior art basketball goal assemblies only an inch or two.

As noted above, some of the prior art designs of portable basketball goal assemblies also have a number of other problems. For example, some have portions that protrude from the support base and thereby create a playing hazard. Others have moving parts that may pinch body parts as they fold or collapse together. Many prior art designs of portable basketball goal assemblies are also overly expensive and difficult to assemble because they require the use of special fixtures such as bearings, collars, and the like to retain metal parts such as wheels, posts, and sliding members in engagement with the support base.

Consistent with the foregoing, it would be an advancement in the art to provide an improved support base for

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portable basketball goal assemblies that can be easily moved by one person without having to pivot a significant portion of the weight of the support base in order to facilitate movement. It would be a further advancement in the art to provide a novel support base and wheel system for basketball goal assemblies that can be readily adapted into a playing position, thereby being resistant to movement during game play.

Yet further, it would be an advancement in the art to provide a portable basketball goal system that is readily movable, as described above, in which substantially the entire underside of the base rests upon the playing surface during game play, so as to impart additional stability and resistance to forces acting on the basketball goal assembly which may tend to move the assembly when configured in the playing position. A still further advancement over the prior art devices would be provided by such a basketball goal system wherein the support base does not extend underneath the basketball net, thus impeding net play or causing potential injury to one or more players.

It would be a further advancement in the art to provide a portable basketball goal assembly having a front portion that could be easily moved in a lateral direction. Furthermore, an advancement would be provided by a portable basketball goal assembly that could be made mobile without having to significantly shift the weight of the assembly for movement, so that minor positioning adjustments may easily be made. Further advancements in the art may stem from providing a support base that is substantially free from protruding objects or members that may impede normal use or game play, and substantially free from folding or compressing areas accessible to a user. Still further advancements in the art would be to provide a basketball goal assembly in which comparatively few fixtures are required to retain moving or assembled parts within the support base.

Such a device is disclosed and claimed herein.

BRIEF SUMMARY OF THE INVENTION

The present invention is directed to a basketball goal system employing a novel adjustable wheel engagement assembly that facilitates movement of the basketball goal system relative to a playing surface. One presently preferred embodiment of the novel basketball goal system of the present invention comprises a rigid support pole having a first end configured to supportably engage a basketball goal above a playing surface and a second opposing end adapted to engage a movable support base. The support base may include a receiving aperture formed in a first portion of the support base, wherein the receiving aperture is adapted to receive and maintain the second end of the support pole in either a fixed or pivotal relationship thereto. The support base further includes sufficient weight appropriately disposed along its dimensional length and width so as to support the rigid support pole and the basketball goal in a general upright position over a playing surface for game play.

In one presently preferred embodiment, an adjustable wheel assembly is operably disposed proximate the front portion of the support base having the receiving aperture for receiving the support pole. Preferably, the adjustable wheel assembly comprises a caster rotatably disposed in relation to a support assembly. As will be appreciated, one or more rollers may be supportably disposed in relation to the support base between the front portion and the back portion of the base, if desired. In one presently preferred embodiment of the present invention, the adjustable wheel assembly

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and one or more rollers, in combination, may provide sufficient support to the base to allow for selective maneuvering of the basketball goal system to various locations for either game play or storage.

An engaging member, moveable between an extended position and a retracted position, is disposed in operable engagement to the support pole. In one presently preferred embodiment, the engaging member comprises a proximal end pivotally connected to the second end of the support pole contiguous the front portion of the base and proximate the receiving aperture that receives the support pole. The engaging member further comprising a distal end configured to engageably receive a hand of a user (e.g., forming a handle). Preferably, the engaging member is pivotally engages the support pole such that the engaging member may be selectively pivoted between an extended position wherein the distal end of the engaging member extends substantially outward and at an angle relative to the generally upright disposition of the support pole and a retracted position wherein the distal end of the engaging member extends substantially parallel to the disposition of the support pole positioned for game play.

In one presently preferred embodiment, the adjustable wheel assembly may comprise a caster mounted on a slider that selectively extends outward from a hollow channel formed at the second end of the support pole. The distal end of the engaging member may include a cam adjustment surface designed to rest upon a follower that is attached to the slider. In operation, the rotational positioning of the cam adjustment surface, when selectively pivoting the engaging member between the retracted position and the extended position, subsequently controls the vertical position of the follower, and therefore that of the slider.

As noted above, in the retracted position, the engaging member is generally disposed substantially upward and parallel to the disposition of the support pole. In operation, the cam adjustment surface of the engaging member may be pivoted in such a way that the follower remains in an upward position. Consequently, the slider of the adjustable wheel assembly may be retained within the internal periphery of the hollow chamber of the support pole, and the caster may therefore be retracted such that the weight of the basketball goal system does not rest upon the adjustable wheel assembly, but rather on the contacting surface of the base support to prevent movement of the basketball goal system. Although one or more rollers may remain in constant contact with the playing surface, the rollers alone are ineffective to allow movement of the support base from one location to another when the engaging member is selectively positioned in the retracted position. Significant movement of the basketball goal system is thus prevented during game play when the engaging member is disposed in the retracted position and the caster is selectively retracted from supporting engagement with the playing surface.

In the extended position, the engaging member extends substantially outward and at an angle relative to the generally upright disposition of the support pole for game play. In operation, the cam adjustment surface of the engaging member may be rotated to a position in which the follower is forced generally downward in relation to the support base. Consequently, the slider generally slides outward from within the hollow channel at the second end of the support pole and, as the caster supportably engages the playing surface, the front portion of the support base is subsequently lifted off the playing surface so that the weight of the front portion of the support base supportably rests upon the caster of the adjustable wheel assembly. As noted above, the distal

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end of the engaging member may then used as a handle or lever for gripping in order to facilitate maneuvering of the support base and, accordingly, the basketball goal system from one location to another for game play or storage.

Thus, it is an object of the present invention to provide a novel adjustable wheel assembly for a basketball goal system having an engaging member adapted to be selectively positionable between a retracted position such that the support base is restricted from significant movement in relation to the playing surface and an extended position which facilitates controlled movement of the support base and, correspondingly, the basketball goal system from one location to another.

It is an additional object of the present invention to provide a support base for a basketball goal assembly that may be moved from one location to another without having to physically lift or tilt the support base from its substantially horizontal position relative to the playing surface.

It is a further object of the present invention to provide a basketball goal system having an engaging member comprising a distal end that serves as a handle or lever for gripping by a user when attempting to manually maneuver the basketball goal system from one position to another.

It is a still further object of the present invention to provide a novel adjustable wheel assembly for basketball goal systems that maintains a substantial frictional area between the support base and the playing surface for stable game play when the engaging member is disposed in a retracted position and, correspondingly, a significant portion of the length of the slider is selectively disposed in the hollow channel formed in the second end of the support pole.

Additionally, it is also an object of the present invention to provide a support base for a basketball goal system that remains substantially displaced from beneath a basketball net play safer and easier.

It is also an object of the present invention to provide a support base for a basketball goal system, wherein a front portion of the support base can be moved in a lateral direction by means of displacing the engaging member in an extended position, thus disposing the caster of the adjustable wheel assembly in supportable relation to the playing surface so as to facilitate easy maneuvering of the basketball goal assembly from one location to another.

These and other objects and features of the present invention will become more fully apparent from the following description and appended claims, or may be learned by the practice of the invention as set forth hereinafter.

BRIEF DESCRIPTION OF THE DRAWINGS

To further clarify the above and other advantages and features of the present invention, a more particular description of the invention will be rendered by reference to specific embodiments thereof which are illustrated in the appended drawings. It is appreciated that these drawings depict only typical embodiments of the invention and are therefore not to be considered limiting of its scope. The invention will be described and explained with additional specificity and detail through the use of the accompanying drawings in which:

FIG. 1 is a perspective view of one presently preferred embodiment of a basketball goal system in accordance with the present invention;

FIG. 2 is a side view of the embodiment of the basketball goal system of FIG. 1 illustrating a support pole, a support

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base, and an extending member, wherein the basketball goal system is disposed in a stationary configuration for game play;

FIG. 3 is a side view of the embodiment of the basketball goal system of FIG. 1 illustrating an engaging member disposed in an extended position and an adjustable wheel assembly supportably engaging the playing surface, wherein facilitating selective movement of the basketball goal system from one location to

FIG. 4 is an exploded, cross-sectional, side view of a front portion of the support base illustrating the pivotal relationship of the extending member and the adjustable wheel assembly of the embodiment of the basketball goal system of FIG. 1, wherein a contacting surface of the support base remains in frictional contact with the playing surface to prevent movement of the basketball goal system; and

FIG. 5 is an exploded, cross-sectional, side view of the front portion of the support base illustrating the structural relationship between the cam surface of the engaging member and the follower attached to the slider of the adjustable wheel assembly of the embodiment of the basketball goal system of FIG. 1, wherein the slider slidably extends outwardly from its telescopic engagement with the second end of the support pole and thereby positions the caster in supportable relation to the playing surface so as to lift a portion of the contacting surface of the support base from its frictional engagement with the playing surface so as to allow for easy transportation of the basketball goal system from one location to another.

FIG. 6 is a perspective view of another embodiment of the basketball goal system, illustrating the engaging member disposed in a playing position;

FIG. 7 is a perspective view of the embodiment of FIG. 6 with the engaging member disposed in an extended position;

FIG. 8 is a rear perspective view of the embodiment of FIG. 6 showing the engaging member secured in the playing position;

FIG. 9, is a perspective view of another embodiment of the support base of the basketball goal system;

FIG. 10 is a bottom plan view of the support base of the basketball goal system;

FIG. 11A is a side view of another embodiment of the basketball goal system with the engaging member disposed in the playing position;

FIG. 11B is a side view of the embodiment shown in FIG. 11A with the engaging member disposed in the extended position; and

FIG. 12 is a perspective view of another embodiment of the basketball goal assembly illustrating the engaging member in the extended position for storage.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

It will be readily understood that the components of the present invention, as generally described and illustrated in the Figures herein, could be arranged and designed in a wide variety of different configurations. Thus, the following more detailed description of the embodiments of the system and method of the present invention, as represented in FIGS. 1 through 5, is not intended to limit the scope of the invention, as claimed, but it is merely representative of the presently preferred embodiments of the invention.

The presently preferred embodiments of the invention will be best understood by reference to the drawings, wherein like parts are designated by like numerals throughout.

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One presently preferred embodiment of the present invention, designated generally at 10, is best illustrated in FIGS. 1 and 2. As shown, the basketball goal system 10 comprises a rigid support pole 14 having a first end 13 configured to supportably engage a basketball goal assembly 30 above a playing surface 26 and a second opposing end 13 adapted to mountably engage a support base 12. Structurally, the support base 12 includes a receiving aperture 28 formed in a front portion 36 of the support base 12, wherein the receiving aperture 28 is adapted to receive and maintain the opposing second end 13 of the support pole 14 in either a fixed or pivotal relationship to the base 12. The support base 12 preferably comprises sufficient weight so as to support the pole 14 and the basketball goal assembly 30 in a general upright position over a playing surface 26. In addition, one or more brace supports 15 may have opposing ends adapted to provide a structural connection between the support base 12 and the pole 14 so as to assist in providing structural support to retain the support pole 14 and the attached basketball goal assembly 30 in a generally upright configuration for game play.

In one presently preferred embodiment, the basketball goal assembly 30 may include a backboard 16, a rim 18, a net 20, and upper and/or lower engagement arms 19a, 19b pivotally connected between the basketball backboard 16 and the first end 11 of the support pole 14. As contemplated herein, an adjustment assembly (not shown) may be operably disposed in relation to the upper and/or lower engagement arms 19a, 19b of the basketball goal assembly 30 such that selective manipulation of the adjustment assembly results in a corresponding adjustment in the height of the basketball goal assembly 30 above the playing surface 26.

The support base 12 of the present invention is preferably formed of a substantially sturdy, rigid material. For example, the support base 12 may be formed of a polymeric material such as, for example, a low-density linear polyethylene. It will be readily appreciated by those skilled in the art, however, that a wide variety of other suitable materials such as wood, fiberglass, ceramic, any of numerous organic, synthetic or processed materials which are mostly thermoplastic or thermosetting polymers of high molecular weight, and/or other composite or polymeric materials are possible which are consistent with the spirit and scope of the present invention.

The support pole 14 is preferably constructed of a rigid material having comparatively high resistance to impact and yielding. Although certain plastics and polymers may be used, the support pole 14 of one presently preferred embodiment of the present invention is formed of metal, such as steel or aluminum, or of a sufficiently sturdy composite material. It will be readily appreciated by those skilled in the art that the support pole 14 of the present invention may comprise two or more sectional members that can be assembled together to form a single support pole having sufficient structural integrity so as to support a goal support assembly 30 above a playing surface 26. For example, the support pole 14 may include two or more sectional members that telescopically engage each other to provide a single support pole 14.

Referring now to FIGS. 4 and 5, in one presently preferred embodiment of the present invention, the support base 12 is formed having a cavity 60 having an internal periphery sufficient for receiving a ballast material such as, for example, water, sand, or the like. In operation, the ballast material provides sufficient weight and adequate support to retain the support pole 14 and the basketball goal assembly 30 in a general upright position during rigorous game play.

In such an embodiment, the support base 12 may be configured with an opening (not shown) formed in the upper surface 40 of the support base 12 such that when the base 12 is filled, for example, with water to the point that the water level in the support base 12 reaches the opening, a void remains within the upper portion of the cavity 60 which does not fill with water. This is to allow for expansion of the water in the case of freezing temperatures.

In operation, after introducing the ballast material into the internal periphery of the cavity 60 of the support base 12, a closure or cap (not shown) may be secured in the face of the opening to prevent the displacement of the ballast material from the cavity 60 of the support base 12. As will be appreciated, the support base 12 may not include a cavity 60 for introducing a ballast material, but rather comprise sufficient weight, in and of itself, to ensure the stability of the basketball goal system 10 when the support pole 14 and the attached basketball goal assembly 30 are disposed generally upward from the playing surface 26 for game play.

Referring back to FIGS. 1 and 2, in one presently preferred embodiment, the support base 12 comprises a front portion 36, a rear portion 38, an upper surface 40, and a contacting surface 42. The receiving aperture 28 of the support base 12, which receives and maintains the second end 13 of the support pole 14 in fixed or pivotal relation thereto, is preferably formed within the front portion 36 of the support base 12. The engagement between the support pole 14 and the receiving aperture 28 of the support base 12 may include a cross-brace member 66 (e.g., a linear shaft or axle) having a proximate end, a distal end, and an intermediate body portion formed between the proximate and distal ends thereof. In this regard, the proximate end of the cross-brace member 66 may be engageably disposed in relation to the support base 12 and the distal end of the cross-brace member 66 engageably disposed in relation to the support pole 14.

In one presently preferred embodiment of the present invention, a first and second cross-brace member 66 are formed on opposite sides of the support pole 14, thus engaging opposite sides of the receiving aperture 28 of the support base 12, as best shown in FIGS. 4 and 5. It will be readily apparent to those skilled in the art that other mechanisms may be constructed in accordance with the inventive principles set forth herein so as to facilitate a fixed or pivotal connection between the support pole 14 and the support base 12. It is intended, therefore, that the example provided herein be viewed as exemplary of the principles of the present invention, and not as restrictive to a particular structure for implementing those principles.

Also disposed in relation to the cross-brace member 66 is an engaging member 22. As best illustrated in FIGS. 1-3, the engaging member 22, being selectively moveable between an extended position and a retracted position so as to define an adjustable distance 24 therebetween, is disposed in pivotal engagement to the support pole 14 by means of one or more cross-brace members 66. In one presently preferred embodiment, the engaging member 22 comprises a proximate end 21 pivotally connected to the second end 13 of the support pole 14 contiguous the front portion 36 of the support base 12 and proximate the receiving aperture 28 which structurally receives the support pole 14 in relation to the base 12. The engaging member 22 also includes a distal end 23 and an elongate intermediate body portion 25 formed between the proximal and distal ends 21, 23 thereof. The distal 23 of the engaging member 22 is preferably configured to receive a hand of a user (e.g., forming a handle) to assist in maneuvering the basketball goal system 10 from

one position to another when the engaging member 22 is positioned in the extended position.

As noted above, the engaging member 22 is structurally disposed relative to the rigid support pole 14 and the base 12 in such a manner that the engaging member 22 may be selectively pivoted between an extended position wherein the distal end 23 of the engaging member 22 may extend substantially outward and at an angle relative to the support pole 14 (as shown in FIGS. 3 and 5) and a retracted position such that the distal end 23 of the engaging member 22 may be positioned substantially parallel to the generally upright disposition of the support pole 14 (as shown in FIGS. 1, 2, and 4). When the engaging member 22 is positioned in the extended position, an adjustable wheel assembly 50 is operably disposed into supportable engagement with the playing surface 26 such that the front portion 36 and at least a portion of the contacting surface 42 of the support base 12 is lifted from its frictional engagement with the playing surface, thereby allowing the basketball goal system 10 to be moved from one location to another. In contrast, when the engaging member 22 is positioned in the retracted position, the adjustable wheel assembly 50 is retracted from supportable engagement with the playing surface 26 such that the contacting surface 42 of the support base 12 remains in frictional engagement with the playing surface, thus restricting movement of the support base 12 and, correspondingly, the basketball goal system 10.

Referring now to FIG. 2, one presently preferred embodiment of the support base 12 includes a contacting surface 42 that may be formed having a slight slope upward gently toward the back portion 38 of the support base 12 to expose a roller 44 supportably engaging a portion of the contacting surface 42. Preferably, a portion of the roller 44 remains in substantial communication with the playing surface 26 when the support base 12 is in the playing position. As will be appreciated, one or more rollers 44 may be supportably disposed in relation to the support base 12 at various positions between the front portion 36 and the back portion 38 of the support base, if desired, to assist in maneuvering the basketball goal system 10 when the engaging member 22 is selectively positioned in the extended position as shown in FIG. 3.

In one presently preferred embodiment, the roller 44 may comprise a caster or a single cylindrical wheel extending a sufficient length across the width of the support base 12 to assist with maneuvering of the support base 12 when the adjustable wheel assembly 50 is disposed in supportable relation to the playing surface 26. It is anticipated, therefore, that any arrangement of rollers is herein contemplated to be within the scope of the present invention, so long as the rollers, independent of the adjustable wheel assembly 50, cannot facilitate significant movement of the support base 12 without selectively disposing the engaging member 22 in the extended position, thus activating the supportable engagement of the adjustable wheel assembly 50 with the playing surface 26. Preferably, two or more cylindrical wheels 44 are rotatably disposed in relation to the contacting surface 42 of the support base 12 proximate the back portion 38 to provide additional maneuvering support to the support base 12 when engaging the adjustable wheel assembly 50 and thus moving the basketball goal system 10 from one location to another.

The rollers 44 preferably turn about axles that are mounted in at least a portion of the contacting surface 42 of the support base 12 and are thus configured to support translation of the support base 12 along an axis extending between the front and back portions 36, 38. The contacting surface 42, however, fictionally engages the playing surface

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26 at the front portion 36 of the support base 12, so that the support base 12 remains substantially immobile until the adjustable wheel assembly 50 is selectively positioned to supportably engage the playing surface 26. A substantial portion of the contacting surface 42 of the support base 12 therefore remains in frictional contact with the playing surface 26 to ensure that the basketball goal system 10 remains sufficiently stable even during rough game play. As best illustrated in FIGS. 1 and 2, the engaging member 22, when positioned in the retracted position, may be generally oriented substantially vertical in relation to the support base 12, and may further act as a rebound surface for a basketball during game play. In this regard, it will be appreciated by those skilled in the art that the intermediate body portion 25 of the engaging member 22 may be formed in geometrical configuration or shape sufficient to provide a rebound surface for a basketball.

Referring now to FIGS. 3 and 5, when the extending member 22 is positioned in the extended position, the distal end 23 of the extending member 22 is disposed outwardly away from the generally upward direction of the support pole 14. Correspondingly, the adjustable wheel assembly 50 extends a length from its telescopic engagement with the second end 13 of the support pole 14, thereby supportably lifting the front portion 36 of the support base 12 from frictional engagement with the playing surface 26. In one presently preferred embodiment, the adjustable wheel assembly 50 comprises a caster 52 operably disposed in relation to a support assembly comprising a slider 64 having a dimensional length sufficient for selectively extending from a hollow channel formed at the second opposing end 13 of the support pole 14 when the engaging member 22 is positioned in the extended position. In structural relationship, the engaging member 22 preferably includes a cam adjustment surface 74 designed to rest upon a follower 68 that is operably attached to the slider 64 approximate a leading end thereof. In operation, the rotational position of the cam adjustment surface 74 determines the vertical positioning of the follower 68 along its length and therefore the corresponding vertical positioning of the slider 64 relative thereto, as best illustrated in FIGS. 4 and 5.

In one presently preferred embodiment of the present invention, the caster 52 engages a swivel base 82 rigidly connected to the leading end of the slider 64. The operable relationship between the caster 52 and the swivel base 82 supports multiple directions of movement so that the front portion 36 of the support base 12 can be oriented in a lateral direction by manual manipulation of the distal end 23 of the engaging member 22 (e.g., which preferably provides a handle for gripping by a user). Maneuvering the basketball goal system 10 by selectively positioning of the engaging member 22 in the extended position and thereby disposing the caster 52 of the adjustable wheel assembly 50 in supportable relationship with the playing surface 26 is thus intuitive and simple.

Preferably, the caster 52 is rotatably mounted at the leading end of the slider 64 of the adjustable wheel assembly 50. The caster 52 may comprise any configuration that permits rolling in several different directions. In one presently preferred embodiment of the adjustable wheel assembly 50, the caster 50 comprises a swivel base 82 affixed to the slider 64 to permit a full 360° of rotation about the axis of the support pole 14. An extension plate 84 may be mounted vertically, extending outwardly from engagement with the swivel base 82 to retain the caster 52 via an axle 86. The caster or wheel 52 is preferably horizontally displaced from the axis of the support pole 14, so that the caster 52 will

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align itself with a direction of motion of the front portion 36 of the base support 12. Thus, a user may pull on the distal end 23 of the engaging member 22 to move the basketball goal system 10 in a forward direction or, in the alternative, a user may apply a pushing force against the distal end 23 of the engaging member 22 to rotate the caster 52 and thereby induce lateral movement in the front portion 36 of the support and, accordingly, cause controlled movement of the basketball goal system 10 from a first location to second location.

In one presently preferred embodiment, the caster 52 may be configured to extend directly from the second end 13 of the support pole 14 so as to directly bear the weight of the pole 14. It will be appreciated, however, that the caster 52 may be formed off-set the support pole 14 in such a manner so as to sufficiently support the weight of the support pole 14 and the front portion 36 of the support base 12 supportably lifted from engagement with the underlying playing surface 26. It is intended, therefore, that the example provided herein be viewed as exemplary of the principles of the present invention, and not as restrictive to a particular structure for implementing those principles.

Referring to FIG. 4, a cross-sectional side view of the front portion 36 of the support base 12 of the basketball goal system 10 is illustrated as defined along lines "4—4" of FIG. 1. As shown, a receiving aperture 28 is preferably formed in the front portion 36 of the support base 12 and includes an internal periphery having a dimensional size and configuration sufficient to accommodate the second end 13 of the support pole 14 in fixed or pivotal engagement with the support base 12. The receiving aperture 28 may be formed separate from an internal cavity 60 also formed in the support base 12. The internal cavity 60 preferably comprises an internal dimensional periphery sufficient for holding a ballast material, as discussed above.

In one presently preferred embodiment, the support pole 14 pivotally engages the support base 12 by means of a shaft 66 that preferably extends into the support base 12 on either or both sides of the second end 13 of the support pole 14. The shaft 66 may terminate at one or both ends in a locking pin or shaped cap segment (not shown) designed to fit within a corresponding receiving slot (not shown) integrally formed in the front portion 36 of the support base 12 to restrict pivotal motion of the support pole 14 about the shaft 66. The receiving slot may be open on the upper surface 40 of the support base 12 to permit easy assembly of the pole 14 and the base 12 by way of introducing the shaft 66 into the receiving slot (not shown). The proximal end 21 of the engaging member 22 may also be pivotally mounted on the shaft 66, but is free to pivot about the shaft 66 independent of the pivotal relationship of the support pole 14.

It will be appreciated that a follower 68 may be supportably mounted on one or both sides of the slider 64 to provide structural support between the support base 12 and proximate end 21 of the engaging member 22 when the basketball goal system 10 is being moved from one location to another. Moreover, the follower 68 may take any form or configuration suitable for variably engaging the contoured cam adjustment surface 74 of the engaging member 22. A simple smooth, rounded projection or knob may form the follower 68; however, in one presently preferred embodiment, a bearing 70 may be rotatably mounted on a hub 72 to provide smooth motion with a minimum of wear. As best illustrated in FIGS. 4 and 5, the outer contacting edges of the follower 68 engage the cam adjustment surface 74 formed at the proximal end 21 of the engaging member 22. The cam adjustment surface 74 preferably takes the form of a cam

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shaped to push the follower **68** to an extended position when the extending member **22** is positioned in the extended position, wherein the distal end **23** thereof is situated substantially outward and at an angle from the pole support **14**, as best illustrated in FIG. 4.

Referring specifically now to FIG. 5, the cam adjustment surface **74** is reoriented to structurally encourage the slider **64** substantially outward a length from the second end **13** of the support pole **14** via the engagement between the follower **68** and the cam surface **74**. As appreciated, the cam adjustment surface **74** must be properly contoured to ensure that a substantially consistent downward force on the follower **68** is maintained through the entire range of motion of the engaging member **22**.

Referring back to FIGS. 4 and 5, a first structural stop **80** may be formed at the proximate end **21** of the engaging member **22** to engage the follower **68** and thereby provide a form of "capture" to prevent further extension of the engaging member **22** when positioned in the fully extended position. Alternatively, the engaging member **22** may function without the first structural stop **80** and thus permit the engaging member to extend into a near horizontal position, if desired. A second structural stop **81** may be formed at the proximate end **21** of the engaging member **22** to engage the follower **68** and thereby provide a form of "capture" to prevent further extension of the engaging member **22** when disposed in the fully retracted position.

Consistent with the foregoing, the present invention provides a novel basketball goal system **10** having a support base **12** which is moveable without having to physically tilt the support base **12** and thereby support a significant portion of the overall weight of the basketball goal system **10**. By selectively retracting the caster **52** of the adjustable wheel assembly **50** from supportable contact with the playing surface **26**, maneuverability and operation of the support base **12** are facilitated and safety is therefore increased. The pivoting engaging member **22** serves to thereby restrict movement of the support base **12** by preventing contact of the caster **52** with the playing surface **26**. Moreover, the engaging member **22** may provide a handle to assist in movement of the basketball goal assembly **10** and a rebound surface for the basketball during game play, if desired.

Stability of the basketball goal system **10** during play is improved by selectively maintaining a substantial portion of the contacting surface **38** of the support base **12** in frictional contact with the playing surface **26** for game play. Movement of the basketball goal system **10** from one location to another is further simplified by the use of an adjustable wheel assembly **50** operably disposed in extendable relation to the second end **13** of the support pole **14** engageably received at the front portion **36** of the support base **12**. The adjustable wheel assembly **50** comprises a caster **52** connected to a swivel base **82** which, in combination, permits the lateral movement of the front portion **36** of the support base **12** when the extending member **22** is positioned in the extended position. The incorporation of one or more rollers **44** in concert with the adjustable wheel assembly **50** facilitates controllable maneuverability of the basketball goal system **10** of the present invention from one location to another location. Moreover, the linear path of extension and retraction of the slider **64** and the caster **52** of the adjustable wheel assembly **50** enables supportable deployment of the caster **52** in relation to the playing surface **26** without substantially moving the basketball goal system **10**, so that easy adjustments are possible.

In addition, the structural arrangement of the cam adjustment surface **74** and the follower **68** has a number of

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operative benefits. For example, the leverage involved enables a user to lift the considerable weight of the front portion **36** of the support base **12** (i.e., over an inch or more) with a comparatively small downward force acting on the engaging member **22**. The cam adjustment surface **74** and the follower **68** are also enclosed within the receiving aperture **28**, so that fingers or other extremities of a user may not be easily pinched, and no significant part protrudes horizontally outward from the support base **12** in any configuration so as to injure a user or impede storage of the basketball goal system **10**.

The telescopic engagement between a length of the slider **64** and the second end **13** of the support pole **14** also imparts a number of distinct advantages to the present invention. For example, the mounting of the caster **52** on the slider **64** selectively disposed within hollow channel formed in the support pole **14** provides a more rigid connection than a fixture attached to a polymeric material, such as plastic, which may be used to form the support base **12**. This structural arrangement between the caster **52** and the slider **64** of the adjustable wheel assembly **50** with the support pole **14** provides a sturdier basketball goal system **10** in which the greatest loads are carried by stronger, more rigid members. Manufacturing and assembly of the basketball goal system **10** is also simplified by reducing the number of metal fixtures that must be mounted in relation to the support base **12** to retain metal parts. Consequently, the basketball goal system **10** of the present invention may be manufactured with comparatively little expense and difficulty.

The present invention may be embodied in other specific forms without departing from its structures, methods, or other essential characteristics as broadly described herein and claimed hereinafter. The described embodiments are to be considered in all respects only as illustrative, and not restrictive. The scope of the invention is, therefore, indicated by the appended claims, rather than by the foregoing description. All changes that come within the meaning and range of equivalency of the claims are to be embraced within their scope.

Another presently preferred embodiment of the present invention, designated generally at **110**, is best illustrated in FIGS. 6 and 7. As shown, the basketball goal assembly **110** comprises a support base **112** having a top surface **114**, a bottom surface **116**, a front end **118**, and a rear end **120**. The support base **112** rests on a generally horizontal playing surface and is configured to support the additional members of the basketball goal assembly **110**.

In one presently preferred embodiment, the support base **112** is formed of a substantially sturdy, rigid material. For example, the support base **112** may be formed of a polymeric material such as, for example, a low-density linear polyethylene. It will be readily appreciated by those skilled in the art, however, that a wide variety of other suitable materials such as wood, fiberglass, ceramic, any of numerous organic, synthetic or process materials which are mostly thermoplastic or thermosetting polymers of high molecular weight, and/or other composite or polymeric materials are possible which are consistent with the spirit and scope of the present invention.

The basketball goal assembly **110** further comprises an engaging member **122** having first and second ends **124** and **126**. In one presently preferred embodiment, the engaging member **122** generally tapers in width from the first end **124** as it extends towards the second end **126**. The first end **124** of the engaging member **122** is pivotally connected to the front end **118** of the support base **112**. This allows the

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engaging member 122 to pivot between the playing position as shown in FIG. 6 and the extended position as shown in FIG. 7.

As with the support base 112, in one presently preferred embodiment of the present invention, the engaging member 122 is formed of a substantially sturdy, rigid material. For example, the engaging member 122 may be formed of a polymeric material such as, for example, a low-density linear polyethylene. It will be readily appreciated by those skilled in the art, however, that a wide variety of other suitable materials such as wood, fiberglass, ceramic, any of numerous organic, synthetic or process materials which are mostly thermoplastic or thermosetting polymers of high molecular weight, and/or other composite or polymeric materials are possible which are consistent with the spirit and scope of the present invention.

In the playing position, the engaging member 122 extends in a generally upward direction relative to the support base 112. The engaging member 122 is configured and disposed relative to the support base 112 such that when the engaging member 122 is selectively positioned in the playing position the first end 124 of the engaging member 122 contacts the playing surface. Contacting the playing surface thereby restricts movement of the support base 112, as will be discussed in further detail below. In one presently preferred embodiment of the present invention, the engaging member 122 includes a second end 126 having one or more extended portions 130. The extended portions 130 form a recess 132 through which the front end 118 of the support base 112 may at least partially extend. The extended portions 130 are configured to contact the playing surface when the engaging member 122 is in the playing position.

Upon assembly, a support pole 128 is inserted into a receiving aperture (not shown) that is formed in the support base 112 such that the support pole 128 is retained in a substantially vertical orientation in relation to the base 112. As appreciated, the support pole 128 is sufficiently secured in the receiving aperture of the base 112 to maintain the disposition of the pole 128. The support pole 128 serves to support a basketball goal assembly 129 in relation to the playing surface. In one presently preferred embodiment of the present invention, the engaging member 122 may be configured with a recess 134 which receives at least a portion of the pole 128 when the engaging member 122 is disposed in the playing position.

In the playing position, the engaging member 122 operates to restrict the movement of the support base 112 by supportably contacting the playing surface. Functionally, the engaging member 122 further serves to provide a rebound surface for a basketball during game play of shooting baskets. In addition, the engaging member 122 may provide protection for the securement of the pole 128 in the receiving aperture and function as a support to the pole 128 by means of engaging the pole 128, as will be explained in further detail herein below.

With reference to FIG. 7, the basketball goal assembly 110 is shown with the engaging member 122 pivoted into the extended position. The extended position is defined herein as a position where the first end 124 of the engaging member 122 is not in contact with the playing surface. Specifically, the extended portions 130 of the engaging member 122 are no longer disposed in restrictive contact with the playing surface such that the support base 112 may be moved to another location, if desired.

In the extended position, the engaging member 122 may serve as a lever or handle to allow manual movement of the

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support base 112. In one presently preferred embodiment, the engaging member 122 is further configured with one or more handles 136 on the second end 126. The handles 136 serve to facilitate manual manipulation of the engaging member 122.

With reference to FIG. 8, another perspective view of the basketball goal assembly 110 is shown with the engaging member 122 disposed in the playing position. In one presently preferred embodiment, the second end 126 of the engaging member 122 is configured with a recess to receive and engage at least a portion of the length of the support pole 128. The engaging member 122 may further comprise a removable fastener disposed on the second end 126 to secure the engaging member 122 to the pole 128 when in the playing position. One of skill in the art will appreciate that the removable fastener may include one or more clamps, pins, collars or the like.

In one presently preferred embodiment, the removable fastener may comprise a pair of brackets 138 formed adjacent the second end 126 of the engaging member 122, as best shown in FIG. 8. When in the playing position, the support pole 128 is generally disposed between the brackets 138. A retaining pin 140 may be introduced through a slot formed in the support pole 128 and supported to thereby selectively secure the engagement of the engaging member 122 to the pole 128. This engagement prevents unexpected movement of the engaging member 122 during game play and thus retains the engaging member 122 in the playing position. In an alternative embodiment, the engaging member 122, when secured to the pole, provides additional structural support to the pole 128.

Still referring to FIG. 8, a removable cap 144 is shown disposed at the back end 120 of the support base 112. The cap 142 serves to allow the insertion or removal of a ballast material into an internal cavity formed in the support base 112. With reference to FIG. 9, the support base 112 is shown without the engaging member 122. In one presently preferred embodiment of the present invention, the support base 112 has an internal cavity 146 for receiving a ballast weight such as, for example, water, sand, or the like. The ballast weight provides support to the basketball goal assembly during rigorous game play. In such an embodiment, the support base 112 is configured with an opening 148 near, but spaced from, the top surface 114 of the support base 112 such that when the base 112 is filled with water to the point that the water level in the support base 112 reaches the opening 148, a void remains within the top of the cavity 146 which does not fill with water. This is to allow expansion of the water in the case of freezing temperatures.

In operation, after introducing the ballast material into the internal cavity 146 of the support base 112, the cap 144 may be secured into the opening 148 to prevent the displacement of the ballast material from the base 112. As will be appreciated, the support base 112 may alternatively forgo the use of a cavity 146 and comprise sufficient weight to act as ballast in order to ensure the stability of the basketball goal assembly 110.

With reference to FIG. 10, the bottom surface 116 of the support base 112 is shown. Preferably, the support base 112 comprises a roller 150 disposed in supportable relation to the support base 112 adjacent to the front end 118 of the base 112. The roller 150 is capable of supporting the effective weight of the support base 112 to thereby maneuver the base 112 from place to place. In one presently preferred embodiment, the roller 150 comprises a single roller extending a sufficient length across the width of the support base

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112 to allow maneuvering of the base 112. Alternatively, the roller 150 may comprise two or more rollers 150 for supporting the support base 112. The roller 150 may be embodied as a cylindrical wheel or a caster. One of skill in the art will readily appreciate that various embodiments of the roller 150 are possible and are intended to be included within the scope of the present invention.

The support base 112 may include a caster 152 disposed in relation to the bottom surface 116 of the base 112 at a spaced apart distance from the roller 150. The caster 152 serves to provide additional support to facilitate maneuvering of the support base 112 when disposing the engaging member 122 in the extended position. In one presently preferred embodiment, the caster 152 may be disposed at an intermediate position between the front and back ends 118, 120 of the support base 112 to better balance the weight between the roller 150 and the caster 152.

Referring again to FIG. 10, the support base 112 may include a shaft 154 (shown in phantom) that preferably extends across at least a portion of the width of the base 112 and is operably secured to the engaging member 122 at its first end 124. The shaft 154 supports the engaging member 122 and provides an axle about which the engaging member 122 can pivot between the playing position as shown in FIG. 6 and the extended position as shown in FIG. 7.

In the presently preferred embodiment illustrated in FIG. 10, the shaft 154 extends into the extended portions 130 of the support base 112. In an alternative preferred embodiment, the shaft 154 may comprise two portions with each portion separately secured to the engaging member 122 and the support base 112. In yet another alternative embodiment, the shaft 154 may extend through the roller 150 and provide a supporting axle to the roller 150.

With reference to FIG. 11A, a side view of the basketball goal assembly 110 is shown with the engaging member 122 in the playing position. The engaging member 122 is configured and disposed in relation to the support base 112 such that when in the playing position the first end 124 of the engaging member 122 contacts the playing surface 156 to prevent movement of the basketball goal assembly 110. In a presently preferred embodiment, the extended portions 130 of the engaging member 122 contact the playing surface 156, as best shown in FIG. 6. The engaging member 122 contacts the playing surface 156 and thus prevents contact between the roller 150 and the playing surface 156. This effectively renders the roller 150 inoperable and prevents movement of the support base 112.

In an embodiment utilizing the caster 152, contact between the caster 152 and the playing surface 156 is maintained. The support base 112 may be slightly tilted by the engaging member 122 such that a portion of the support base 112 adjacent the back end 120 contacts the playing surface 156. This contact prevents a further restriction to movement.

With reference to FIG. 11B, a side view of the basketball goal assembly 110 is shown with the engaging member 122 in the extended position. In this position, the engaging member 122 is not in contact with the playing surface 156. Thus, the roller 150, as well as the caster 152, remains in contact with the playing surface 156. In the extended position, the support base 112 may then be maneuvered to another location, as desired. The second end 126 of the engaging member 122 may be used to guide and otherwise maneuver the support base 112 to the new location.

With reference to FIG. 12, the engaging member 122 is shown in the extended position wherein being disposed in a

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generally horizontal position relative to the support base 112 to accommodate for compact storage of the support base 112 and the engaging member 122 after removal of the support pole 128. In such a position, the basketball goal assembly 110 is suitable for storage or shipping.

As disclosed herein, the present invention provides a novel two-part support base for a basketball goal assembly 110 having a support base 112 which is readily moveable without having to physically tilt the base 112 and thereby support a significant portion of its weight. By manually maintaining contact between the first end 124 of the engaging member 122 with the playing surface 156, movement of the support base 112 is facilitated and safety is therefore increased. The pivoting engaging member 122 serves to thereby restrict movement of the support base 112 by preventing contact of the roller 150 with the playing surface 156. Moreover, the engaging member 122 may provide a handle to assist in movement of the basketball goal assembly 110, a rebound surface for the basketball during game play and a protective shield to protect the securement of the support pole 128 in relation to the support base 112, if desired.

The present invention may be embodied in other specific forms without departing from its spirit or essential characteristics. The described embodiments are to be considered in all respects only as illustrative and not restrictive. The scope of the invention is, therefore, indicated by the appended claims rather than by the foregoing description. All changes which come within the meaning and range of equivalency of the claims are to be embraced within their scope.

What is claimed is:

1. A portable basketball goal system that is capable of being moved from one location to another location, the portable basketball goal system comprising:

- a support pole including a first end and a second end;
- a basketball goal connected to the first end of the support pole, the basketball goal being positioned above a playing surface;
- a support base connected to the second end of the support pole, the support base including a front portion, a rear portion and a bottom portion;
- a first wheel assembly disposed proximate the front portion of the support base, the first wheel assembly including a first position in which the support base is held in a generally stationary position relative to the playing surface and a second position in which the support base can readily move relative to the playing surface wherein said support base includes an opening in the front portion end of the support base for receiving at least a portion of the first wheel assembly;
- a second wheel assembly disposed proximate the rear portion of the support base, the first wheel assembly and the second wheel assembly being sized and configured to allow the portable basketball goal system to be moved from one location to another location when the first wheel assembly is in the second position; and
- an engaging member including a first end and a second end, the engaging member being movable between a playing position and an extended position, the playing position including the first end of the engaging member being generally disposed adjacent to the support pole, at least a section of the bottom portion of the support base contacting the playing surface and the portable basketball goal system being held in a generally stationary position, the extended position including the first end of the engaging member being generally

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spaced away from the support pole, the bottom portion of the support base being generally spaced away from the playing surface, the first wheel assembly being in the second position, and the portable basketball system being capable of being moved from one location to another location by rolling on the first wheel assembly and the second wheel assembly.

2. The portable basketball goal system of claim 1, further comprising an opening in the front portion of the support base for receiving the second end of the support pole.

3. The portable basketball goal system of claim 1, wherein the engaging member is generally disposed parallel to the support pole in the playing position.

4. The portable basketball goal system of claim 1, wherein the engaging member is disposed at an angle relative to the support pole in the extended position.

5. The portable basketball goal system of claim 1, wherein the section of the bottom portion of the support base frictionally engages the playing surface in the playing position to hold the portable basketball goal system in the generally stationary position.

6. The portable basketball goal system of claim 1, wherein the first end of the engaging member includes a handle.

7. A portable basketball goal system that is capable of being moved from one location to another location, the portable basketball goal system comprising:

- a support pole including a first end and a second end;
- a basketball goal connected to the first end of the support pole, the basketball goal being positioned above a playing surface;

- a support base connected to the second end of the support pole, the support base including a front portion, a rear portion and a bottom portion;

- a first wheel assembly disposed proximate the front portion of the support base;

- a second wheel assembly disposed proximate the rear portion of the support base, the first wheel assembly and the second wheel assembly being sized and configured to allow the portable basketball goal system to be moved from one location to another location; and

- an engaging member including a first end and a second end, the engaging member being movable between a playing position and an extended position, the playing position including the first end of the engaging member being generally disposed adjacent to the support pole, at least a section of the bottom portion of the support base contacting the playing surface and the portable basketball goal system being held in a generally stationary position, the extended position including the first end of the engaging member being generally spaced away from the support pole, the bottom portion of the support base being generally spaced away from the playing surface and the portable basketball system being capable of being moved from one location to another location by rolling on the first wheel assembly and the second wheel assembly;

wherein the first end of the engaging member engages the support pole in the playing position.

8. A portable basketball goal system that is capable of being moved from one location to another location, the portable basketball goal system comprising:

- a support pole including a first end and a second end;
- a basketball goal connected to the first end of the support pole, the basketball goal being positioned above a playing surface;

- a support base connected to the second end of the support pole, the support base including a front portion, a rear portion and a bottom portion;

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- a first wheel assembly disposed proximate the front portion of the support base;

- a second wheel assembly disposed proximate the rear portion of the support base, the first wheel assembly and the second wheel assembly being sized and configured to allow the portable basketball goal system to be moved from one location to another location; and

- an engaging member including a first end and a second end, the engaging member being movable between a playing position and an extended position, the playing position including the first end of the engaging member being generally disposed adjacent to the support pole, at least a section of the bottom portion of the support base contacting the playing surface and the portable basketball goal system being held in a generally stationary position, the extended position including the first end of the engaging member being generally spaced away from the support pole, the bottom portion of the support base being generally spaced away from the playing surface and the portable basketball system being capable of being moved from one location to another location by rolling on the first wheel assembly and the second wheel assembly; and

- a fastener that fastens the first end of the engaging member to the support pole in the playing position.

9. The portable basketball goal system of claim 1, wherein the lower portion of the support base remains generally parallel to the playing surface in both the playing position and the extended position.

10. The portable basketball goal system of claim 1, wherein no substantial tilting of the support base is required when moving the portable basketball goal system from one location to another location.

11. A basketball goal system that is capable of being moved from one location to another location, the portable basketball goal system comprising:

- a support pole including a first end and a second end;
- a basketball goal connected to the first end of the support pole, the basketball goal being positioned above a playing surface;

- a support base connected to the second end of the support pole, the support base including a front portion, a rear portion and a bottom portion;

- a first wheel assembly disposed proximate the front portion of the support base, the first wheel assembly including a first position in which the support base is held in a generally stationary position relative to the playing surface and a second position in which the support base can readily move relative to the playing surface;

- a second wheel assembly disposed proximate the rear portion of the support base, the basketball goal system being sized and configured to be moved from one location to another location by simultaneously rolling on the first wheel assembly and the second wheel assembly when the first wheel assembly is in the second position; and

- an engaging member including a first end, a second end and being capable of being moved between a first position and a second position relative to the support pole, the first position including at least a section of the bottom portion of the support base contacting the playing surface and the portable basketball goal system being held in a generally stationary position, the second position including the bottom portion of the support base being generally spaced away from the playing

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surface and the portable basketball system being capable of being moved from one location to another location by simultaneously rolling on the first wheel assembly and the second wheel assembly when the first wheel assembly is in the second position.

12. The basketball goal system of claim 11, wherein the first end of the engaging member is generally disposed adjacent to the support pole when the engaging member is in the first position.

13. The basketball goal system of claim 11, wherein the first end of the engaging member is generally spaced away from the support pole when the engaging member is in the second position.

14. The basketball goal system of claim 11, further comprising an opening in the front portion of the support base for receiving the second end of the support pole.

15. The basketball goal system of claim 11, further comprising an opening in the front portion of the support base for receiving at least a portion of the first wheel assembly.

16. The basketball goal system of claim 11, wherein the engaging member is generally disposed parallel to the support pole in the first position.

17. The basketball goal system of claim 11, wherein the engaging member is disposed at an angle relative to the support pole in the second position.

18. The basketball goal system of claim 11, wherein the section of the bottom portion of the support base frictionally engages the playing surface in the first position to hold the portable basketball goal system in the generally stationary position.

19. The basketball goal system of claim 11, wherein the first end of the engaging member includes a handle.

20. A basketball goal system that is capable of being moved from one location to another location, the portable basketball goal system comprising:

- a support pole including a first end and a second end;
- a basketball goal connected to the first end of the support pole, the basketball goal being positioned above a playing surface;

- a support base connected to the second end of the support pole, the support base including a front portion, a rear portion and a bottom portion;

- a first wheel assembly disposed proximate the front portion of the support base;

- a second wheel assembly disposed proximate the rear portion of the support base, the basketball goal system being sized and configured to be moved from one location to another location by simultaneously rolling on the first wheel assembly and the second wheel assembly; and

- an engaging member including a first end, a second end and being capable of being moved between a first position and a second position relative to the support pole, the first position including at least a section of the bottom portion of the support base contacting the playing surface and the portable basketball goal system being held in a generally stationary position, the second position including the bottom portion of the support base being generally spaced away from the playing surface and the portable basketball system being capable of being moved from one location to another location;

wherein the first end of the engaging member engages the support pole in the first position.

21. A basketball goal system that is capable of being moved from one location to another location, the portable basketball goal system comprising:

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- a support pole including a first end and a second end;

- a basketball goal connected to the first end of the support pole, the basketball goal being positioned above a playing surface;

- a support base connected to the second end of the support pole, the support base including a front portion, a rear portion and a bottom portion;

- a first wheel assembly disposed proximate the front portion of the support base;

- a second wheel assembly disposed proximate the rear portion of the support base, the basketball goal system being sized and configured to be moved from one location to another location by simultaneously rolling on the first wheel assembly and the second wheel assembly; and

- an engaging member including a first end, a second end and being capable of being moved between a first position and a second position relative to the support pole, the first position including at least a section of the bottom portion of the support base contacting the playing surface and the portable basketball goal system being held in a generally stationary position, the second position including the bottom portion of the support base being generally spaced away from the playing surface and the portable basketball system being capable of being moved from one location to another location; and

- a fastener that fastens the first end of the engaging member to the support pole in the first position.

22. The basketball goal system of claim 11, wherein the lower portion of the support base remains generally parallel to the playing surface in both the first position and the second position.

23. The basketball goal system of claim 11, wherein no substantial tilting of the support base is required when moving the portable basketball goal system from one location to another location.

24. A basketball goal system that is capable of being moved from one location to another location, the portable basketball goal system comprising:

- a support pole including a first end and a second end;

- a basketball goal connected to the first end of the support pole, the basketball goal being positioned above a playing surface;

- a support base connected to the second end of the support pole, the support base including a front portion, a rear portion and a bottom portion;

- a first wheel assembly disposed proximate the front portion of the support base, the first wheel assembly including a first position in which the first wheel assembly does not contact the playing surface and a second position in which the first wheel assembly contacts the playing surface;

- a second wheel assembly disposed proximate the rear portion of the support base; and

- an engaging member including a first end and a second end, the engaging member being capable of being moved between a first position and a second position relative to the support pole, the portable basketball goal system being held in a generally stationary position in the first position of the engaging member and the first wheel assembly because the first wheel assembly does not contact the playing surface, the portable basketball system being capable of being moved from one location to another location by rolling on the first wheel

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assembly and the second wheel assembly in the second position of the engaging member and the first wheel assembly;

wherein at least a section of the bottom portion of the support base contacts the playing surface in the first position. 5

25. A basketball goal system that is capable of being moved from one location to another location, the portable basketball goal system comprising:

a support pole including a first end and a second end; 10

a basketball goal connected to the first end of the support pole, the basketball goal being positioned above a playing surface;

a support base connected to the second end of the support pole, the support base including a front portion, a rear portion and a bottom portion; 15

a first wheel assembly disposed proximate the front portion of the support base, the first wheel assembly including a first position in which the first wheel assembly does not contact the playing surface and a second position in which the first wheel assembly contacts the playing surface; 20

a second wheel assembly disposed proximate the rear portion of the support base; and 25

an engaging member including a first end and a second end, the engaging member being capable of being moved between a first position and a second position relative to the support pole, the portable basketball goal system being held in a generally stationary position in the first position of the engaging member and the first wheel assembly because the first wheel assembly does not contact the playing surface, the portable basketball system being capable of being moved from one location to another location by rolling on the first wheel assembly and the second wheel assembly in the second position of the engaging member and the first wheel assembly; 30

wherein the first end of the engaging member is generally disposed adjacent to the support pole when the engaging member is in the first position. 40

26. A basketball goal system that is capable of being moved from one location to another location, the portable basketball goal system comprising:

a support pole including a first end and a second end; 45

a basketball goal connected to the first end of the support pole, the basketball goal being positioned above a playing surface;

a support base connected to the second end of the support pole, the support base including a front portion, a rear portion and a bottom portion; 50

a first wheel assembly disposed proximate the front portion of the support base, the first wheel assembly including a first position in which the first wheel assembly does not contact the playing surface and a second position in which the first wheel assembly contacts the playing surface; 55

a second wheel assembly disposed proximate the rear portion of the support base; and 60

an engaging member including a first end and a second end, the engaging member being capable of being moved between a first position and a second position relative to the support pole, the portable basketball goal system being held in a generally stationary position in the first position of the engaging member and the first wheel assembly because the first wheel assembly does 65

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not contact the playing surface, the portable basketball system being capable of being moved from one location to another location by rolling on the first wheel assembly and the second wheel assembly in the second position of the engaging member and the first wheel assembly;

wherein at least a section of the bottom portion of the support base frictionally engages the playing surface in the first.

27. A basketball goal system that is capable of being moved from one location to another location, the portable basketball goal system comprising:

a support pole including a first end and a second end;

a basketball goal connected to the first end of the support pole, the basketball goal being positioned above a playing surface;

a support base connected to the second end of the support pole, the support base including a front portion, a rear portion and a bottom portion;

a first wheel assembly disposed proximate the front portion of the support base;

a second wheel assembly disposed proximate the rear portion of the support base; and

an engaging member including a first end and a second end, the engaging member being capable of being moved between a first position and a second position relative to the support pole, the portable basketball goal system being held in a generally stationary position in the first position because the first wheel assembly does not contact the playing surface, the portable basketball system being capable of being moved from one location to another location by rolling on the first wheel assembly and the second assembly wheel in the second position; 35

wherein the first end of the engaging member engages the support pole in the first position.

28. A portable basketball system comprising:

a support pole with a first end and a second end;

a basketball goal assembly connected to the first end of the support pole, the basketball assembly including a backboard and a rim located a distance above a playing surface;

a support base connected to the second end of the support pole, the support base including a front portion, a rear portion, a top surface and a bottom surface;

a first wheel assembly including at least one wheel attached to the front portion of the support base;

a second wheel assembly including at least one wheel attached to the rear portion of the support base; and

an engaging member movable between a playing position and an extended position relative to the support base, the support base being movable when the engaging member is in the playing position and the support base being held in a generally fixed position when the engaging member is in the extended position; 45

wherein the engaging member engages a portion of the support pole in the playing position.

29. A portable basketball system comprising:

a support pole with a first end and a second end;

a basketball goal assembly connected to the first end of the support pole, the basketball assembly including a backboard and a rim located a distance above a playing surface;

a support base connected to the second end of the support pole, the support base including a front portion, a rear portion, a top surface and a bottom surface; 65

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- a first wheel assembly including at least one wheel attached to the front portion of the support base, the first wheel assembly being movable between a first position in which the first wheel assembly does not contact the playing surface and the support base is held in a generally stationary position relative to the playing surface and a second position in which the first wheel assembly does contact the playing surface and the support base is readily movable relative to the playing surface;
- a second wheel assembly including at least one wheel attached to the rear portion of the support base; and
- an engaging member connected to the first wheel assembly and being movable between a playing position in which the first wheel assembly is in the first position and at least a portion of the bottom surface of the support base frictionally engages the playing surface and an extended position in which the first wheel assembly is in the second position and the portion of the bottom surface of the support base does not frictionally engage the playing surface.
- 30.** A portable basketball system comprising:
- a support pole with a first end and a second end;
 - a basketball goal assembly connected to the first end of the support pole, the basketball assembly including a backboard and a rim located a distance above a playing surface;
 - a support base connected to the second end of the support pole, the support base including a front portion, a rear portion, a top surface and a bottom surface;
 - a first wheel assembly including at least one wheel attached to the front portion of the support base, the first wheel assembly being movable between a first position in which the first wheel assembly does not contact the playing surface and the support base is held in a generally stationary position relative to the playing surface and a second position in which the first wheel assembly does contact the playing surface and the support base is readily movable relative to the playing surface;
 - a second wheel assembly including at least one wheel attached to the rear portion of the support base; and
 - an engaging member connected to the first wheel assembly and being movable between a playing position in which the first wheel assembly is in the first position and an extended position relative to the support base in which the first wheel assembly is in the second position wherein pivoting movement of the engaging member between the playing position and the extended position causes the first wheel assembly to be moved between the first position and the second position.
- 31.** A portable basketball goal system that is capable of being moved from one location to another location, the portable basketball goal system comprising:
- a support pole;
 - a basketball goal connected to the support pole, the basketball goal being positioned above a playing surface;
 - a support base connected to the support pole, the support base including an internal cavity that is capable of being filled with a ballast material;
 - a first wheel assembly disposed proximate a first portion of the support base, the first wheel assembly including a first position in which the support base is held in a generally stationary position relative to the playing

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- surface and a second position in which the support base is readily movable relative to the playing surface;
 - a second wheel assembly disposed proximate a second portion of the support base; and
 - an engaging member that is capable of moving the first wheel assembly between the first position and the second position, the first position also including at least a portion of the support base contacting the playing surface and the portable basketball goal system being held in a generally stationary position, the second position also including the support base being generally spaced away from the playing surface and the portable basketball system being capable of being moved from one location to another location.
- 32.** The portable basketball goal system of claim **31**, wherein the engaging member is generally disposed parallel to the support pole in the first position.
- 33.** The portable basketball goal system of claim **31**, wherein the engaging member is disposed at an angle relative to the support pole in the second position.
- 34.** The portable basketball goal system of claim **31**, wherein the lower portion of the support base remains generally parallel to the playing surface in both the playing position and the extended position.
- 35.** The portable basketball goal system of claim **31**, wherein no substantial tilting of the support base is required when moving the portable basketball goal system from one location to another location.
- 36.** The basketball goal system of claim **31**, wherein the support base is constructed from plastic.
- 37.** The basketball goal system of claim **31**, wherein a first end of the engaging member is generally disposed adjacent to the support pole when the engaging member is in the first position.
- 38.** The basketball goal system of claim **31**, wherein a first end of the engaging member is generally spaced away from the support pole when the engaging member is in the second position.
- 39.** The basketball goal system of claim **31**, wherein at least a portion of the support base frictionally engages the playing surface in the first position to hold the portable basketball goal system in a generally fixed location.
- 40.** A portable basketball system that is capable of being moved from one location to another location, the portable basketball system comprising:
- an elongated support that is sized and configured to support a basketball goal above a playing surface;
 - a base that is sized and configured to support the elongated support in a generally upward direction, the base including a hollow interior portion that is sized and configured to be filled with a ballast material;
 - a wheel assembly that is movable between a first position in which the base is held in a generally stationary position relative to the playing surface and a second position in which the base can readily be moved relative to the playing surface; and
 - an engaging member with an elongated body that moves the wheel assembly between the first position and the second position to facilitate movement of the base relative to the playing surface, the engaging member including a first end that is sized and configured to be grasped by a user, the first end of the engaging member being disposed proximate to the elongated support when the first wheel assembly is in the first position, the first end of the engaging member being disposed away from the elongated support when the first wheel assembly is in the second position.

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41. The portable basketball system as in claim 40, wherein the engaging member includes a second end that is pivotally connected to the support pole.

42. The portable basketball system as in claim 40, wherein the engaging member includes a second end that is pivotally 5 connected to the support base.

43. The portable basketball system as in claim 40, wherein the first end of the engaging member includes a handle.

44. The portable basketball system as in claim 40, further comprising a lower portion of the base, at least a substantial 10 portion of the lower portion of the base being in contact with the playing surface when the first wheel assembly is in the first position and at least a substantial portion of the lower portion of the base being spaced apart from the playing 15 surface when the first wheel assembly is in the second position.

45. The portable basketball system as in claim 40, further comprising a second wheel assembly.

46. The portable basketball system as in claim 40, further comprising a receiving portion that extends completely 20 through a portion of the base; further comprising an end of the elongated support being at least partially disposed within the receiving portion; and further comprising the wheel assembly being at least partially disposed within the receiving 25 portion when the wheel assembly is in the first position.

47. The portable basketball system as in claim 40, wherein the wheel assembly is disposed generally underneath the pole.

48. The portable basketball system as in claim 40, wherein the pole is pivotally connected to the base. 30

49. The portable basketball system as in claim 40, further comprising a cross brace member that connects the pole to the base and connects the engaging member to the pole.

50. A portable basketball system comprising:

an elongated support that supports a basketball goal above 35 a playing surface;

a base that supports the elongated support in a generally upward direction, the base including a generally hollow interior portion that is sized and configured to be filled 40 with ballast and lower portion that is sized and configured to contact the playing surface;

a first wheel assembly disposed proximate one end of the base, the first wheel assembly being movable between 45 a first position in which the base is held in a generally stationary position relative to the playing surface and a second position in which the base is readily movable relative to the playing surface;

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a second wheel assembly disposed proximate another end of the base; and

an engaging member that moves the first wheel assembly between the first position and the second position, the engaging member also moving the base between a first position in which a lower portion of the base contacts the playing surface and a second position in which the lower portion of the base is spaced apart from the playing surface.

51. The portable basketball system as in claim 50, further comprising one end of the engaging member that is pivotally connected to the elongated support, the other end of the engaging member being disposed proximate the elongated support when the engaging member is in the first position and the other end of the engaging member being disposed away from the elongated support when the engaging member is in the second position.

52. The portable basketball system as in claim 50, further comprising one end of the engaging member that is pivotally connected to the base, the other end of the engaging member being disposed proximate the elongated support when the engaging member is in the first position and the other end of the engaging member being disposed away from the elongated support when the engaging member is in the second position.

53. The portable basketball system as in claim 50, further comprising a receiving portion in the base, an end of the elongated member being at least partially disposed within the receiving portion and at least a portion of the first wheel assembly being disposed within the receiving portion when the first wheel assembly is in the first position.

54. The portable basketball system as in claim 50, wherein the first wheel assembly is generally disposed underneath the elongated member.

55. The portable basketball system as in claim 50, wherein the engaging member is disposed generally parallel to the elongated support when the engaging member is in the playing position and the engaging member is disposed at an angle relative to the elongated support when the engaging member is in the extended position.

56. The portable basketball system as in claim 50, further comprising a member that connects the elongated support to the base and the engaging member to the elongated support.

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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,916,257 B1
DATED : July 12, 2005
INVENTOR(S) : Edward G. van Nimwegen

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title page.

Item [56], **References Cited**, U.S. PATENT DOCUMENTS, add:
-- 3,427,025 A * 2/1969 Procter 473/483 --.
OTHER PUBLICATIONS,
change "Huff Sports," to -- Huffy Sports, --.

Column 1.

Line 13, change "HAVING-PART" to -- HAVING TWO-PART --.

Column 3.

Line 43, before "the capacity" insert -- have --.

Column 4.

Line 17, after "devices would" insert -- be --.

Column 5.

Line 14, after "engaging member" remove "is".

Column 6.

Line 1, after "may then" insert -- be --.

Column 7.

Line 9, after "location to" insert -- another; --.

Column 9.

Line 65, change "distal 23" to -- distal end 23 --.

Column 11.

Line 19, after "member 22" change "in" to -- is --.
Line 53, after "wheel assembly" change "SO" to -- 50 --.
Lines 57-58 and 60-61, after "wheel assembly" change "SO," to -- 50, --.
Line 62, change "3600" to -- 360° --.

Column 12.

Line 4, after "goal system" change "lain" to -- in --.
Line 29, change "end] 3" to -- end 13 --.
Line 30, change "pole] 4" to -- pole 14 --.

Column 14.

Line 16, before "hollow channel" insert -- the --.

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,916,257 B1
DATED : July 12, 2005
INVENTOR(S) : Edward G. van Nimwegen

Page 2 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 15,

Line 50, after "game play" change "of" to -- or --.

Column 20,

Line 27, change "lower portion" to -- bottom portion --.

Column 23,

Line 22, before "surface;" change "slaying" to -- playing --.

Line 24,

Line 9, after "the first" add -- position --.

Column 26,

Line 22, change "the lower portion" to -- a lower portion --.

Column 27,

Line 6, before "base" remove "support".

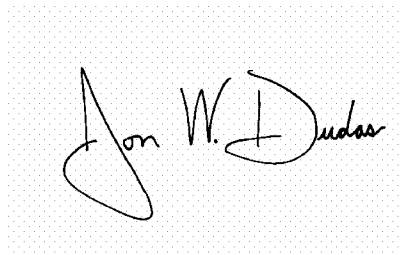
Lines 12 and 15, before "wheel assembly" remove "first".

Lines 28, 30, 32 and 33, change "pole" to -- elongated support --.

Line 40, before "lower portion" insert -- a --.

Signed and Sealed this

Twentieth Day of December, 2005

A handwritten signature in black ink on a light gray dotted background. The signature reads "Jon W. Dudas" in a cursive, stylized script. The first name "Jon" is written with a large, sweeping initial 'J'. The last name "Dudas" is written with a large, sweeping initial 'D'.

JON W. DUDAS

Director of the United States Patent and Trademark Office